



**General VPDES Permit for Discharges of Stormwater
from Small Municipal Separate Storm Sewer Systems
Permit # VAR040037**

Annual Report

**Permit Reporting Year
July 1, 2018 - June 30, 2019**

James City County



James City County
General VPDES Permit for Discharges of Stormwater
from Small Municipal Separate Storm Sewer Systems (MS4s)
Permit # VAR040037
Annual Report
Permit Reporting Year - July 1, 2018 - June 30, 2019

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Part A

Signed Certification Statement

**CERTIFICATION STATEMENT AND SIGNATORY REQUIREMENTS
FOR MS4 PERMIT APPLICATIONS AND REPORTS**

As required by 9VAC25-870-370 B, all reports required by state permits, and other information requested by the board shall be signed by a responsible official or by a duly authorized representative of that person. A responsible official is:

1. *For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;*
2. *For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or*
3. *For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.*

A person is a duly authorized representative only if:

1. *The authorization is made in writing by a person described above;*
2. *The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and*
3. *The written authorization is submitted to the department.*

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Mr. Scott Stevens, County Administrator

9-30-19

Date

VAR040037

James City County

Permit Number

MS4 Name

Part B

General Information

General Information

Permit Reporting Year - July 1, 2018 - June 30, 2019

This annual report is hereby submitted for James City County's General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s). The report presents information in accordance with the MS4 permit from the Virginia Department of Environmental Quality (DEQ). Unless otherwise noted, the information submitted in this annual report is for the entire County, not just the MS4 (regulated) area.

1. General Information

- a. James City County General Permit Number #VAR040037
- b. Annual Report Permitting Year – July 1, 2018 - June 30, 2019
- c. The signed certification statement per Part III K in the MS4 permit is provided in Part A of this report.
- d. Annual reporting information related to each minimum control measure (MCM) is provided in Part C of this report.
- e. An evaluation of the MS4 program implementation, including a review of each MCM, to determine the program's effectiveness and whether or not changes to the MS4 program plan are necessary is provided below and in the information related to each MCM in Part C of this report.

2. Revisions to the Program Plan

- a. The program plan updated in May 2019 was further revised for the 2018-2019 reporting year to remove metrics related to previous permit requirements that were no longer applicable.
- b. An updated version of the Program Plan is provided on the Division's website at the link below.
<https://jamestowncountyva.gov/992/MS4-Permit>

3. Documentation of Program's Approval Status

- a. James City County was approved by the DEQ as a VSMP Authority in 2014. A copy of the approval letter, dated March 29, 2014, is provided in this section of the annual report. The County's Division of Stormwater and Resource Protection oversees the administration of the program.

4. Reliance on Another Government Entity

- a. During the 2018-2019 reporting year James City County made a change regarding funding and supporting the Turf Love program from Virginia Cooperative Extension to the Colonial Soil and Water Conservation District (CSWCD).
- b. The County maintains a Memorandum of Agreement and continues to partner with the Hampton Roads Planning District Commission (HRPDC) in regional processes including the Regional Stormwater Management Program, the Stormwater Workgroup, and askHRgreen.org.

5. TMDL Special Conditions

- a. A status report on the Chesapeake Bay TMDL Action Plan is provided in Part E of this report.
- b. A status report on local TMDL Action Plans is provided in Part F of this report.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

Fax: 804-698-4019 - TDD (804) 698-4021

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

March 29, 2014

Sanford B. Wanner, County Administrator
James City County
101 Mounts Bay Rd.
Williamsburg VA 23187Address

Dear Mr. Wanner:

In accordance with §62.1-44.15:27 G of the Virginia Stormwater Management Act (Act), Department of Environmental Quality (DEQ) has completed the review of James City County's Virginia Stormwater Management Program (VSMP) application package submitted on January 14, 2014. Based on this review, DEQ has determined that the County's VSMP is consistent with the Act, the VSMP regulation and the General VPDES Permit for Discharges of Stormwater from Construction Activities.

In light of this determination, DEQ approves James City County's VSMP; and the County is authorized to operate a VSMP beginning on July 1, 2014. Please note that this approval is based on the content of the application package. Any changes made to the documents in the package after the approval date, including changes to the adopted ordinance, may necessitate DEQ evaluation as part of its compliance review of your approved VSMP.

Thank you for your cooperation in developing a VSMP. We look forward to continuing to assist the County with the implementation of its VSMP.

Sincerely,

A handwritten signature in black ink, appearing to read "David K. Paylor".

David K. Paylor

cc: Melanie Davenport, Director, Water Division
Frederick Cunningham, Director, Office of Water Permits
Joan Salvati, Manager, Local Government Stormwater Programs

Part C – Section 1

**Minimum Control Measure #1
Public Education and Outreach**

James City County Compliance Summary Statement

MCM1 Public Education and Outreach

Permit Reporting Year - July 1, 2018 - June 30, 2019

James City County staff worked diligently in cooperation with volunteers, other localities, the Colonial Soil and Water Conservation District (CSWCD), and the Hampton Roads Planning District Commission (HRPDC) to educate and encourage citizens to make responsible choices and treat local waterways with care. Some of these activities included planning and supporting information and events drawing attention to the shared website askhrgreen.org, talking with community groups, doing demonstrations of the Enviroscape stormwater learning tool, and promoting the high-priority stormwater issues listed below.

- **Pet Waste** - Intended to reduce impacts to waterways with local bacteria impairments and seasonal algal blooms. Pet owners (specifically dog owners) are the intended audience for this issue. The Stormwater and Resource Protection Division targets dog owners by encouraging the removal of pet waste from downstream waters through efforts including giving away free pet waste stations to HOAs, providing portable dog waste bags, and attending events specifically for dog owners at which bacteria and pet waste information is made available. This effort is ongoing in implementation.
- **Lawn Care** - Intended to reduce algal blooms and nutrient concentrations in surface waters. Homeowners are the intended target audience of this high-priority issue. The Division targets homeowners by participating in initiatives with the HRPDC including promoting e-newsletters, and brochures containing information on fertilization tips, distributing free messaging promotional items such as, pens, pencils, and soil tests, partnering with the CSWCD to implement the "Turf Love" and "Garden Love" programs, and providing Rain Barrel Workshops to the general public. This effort is ongoing in implementation.
- **Proper Disposal of Fats, Oils, and Grease (FOG)** - Intended to prevent sanitary sewer overflows caused by improper disposal of fats, oils, and grease. Restaurant owners and employees, and the general public are the target audience of this high-priority issue. The Stormwater and Resource Protection Division targets this audience by participating in HRPDC initiatives such as paid media campaigns, distributing promotional items such as grease can lids, sponges, and sink strainers, and providing brochures at outreach events attended. This effort is ongoing in implementation.

During the 2018-2019 reporting year, seven (7) public outreach events took place County-wide and 2,050 premium items were given to the public. Two (2) BMP maintenance workshops and one (1) Rain Barrel Workshop were held for County residents.

During the next permit reporting year, the County will continue to implement the Stormwater Education Plan through similar successful events, activities, and coordination with askhrgreen.org. Promotional items, volunteer time, and continuing program analysis will remain in operation, and the three (3) high-priority stormwater issues identified will continue to be implemented.

Part C – Section 1

**Minimum Control Measure #1
Public Education and Outreach**

Exhibits

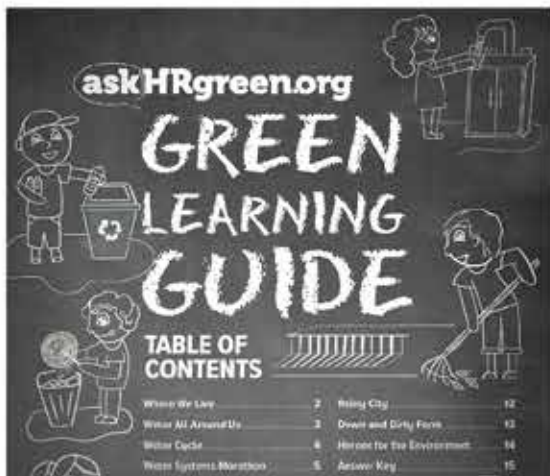
Public Education and Outreach Events
Reporting Year 2018-2019

Date	Event	Staff	Display	Presentation	Audience	Attendance	Materials Distributed	Estimated Quantity of Materials Distributed	Message Focus
7/3/2018	James City County Restauraunt Outreach	Trevor Long	No	No	Customers of Restaruants and Bars	unkown	"Our River, Ours to Protect" Coasters	Billsburg - 80, Oceans and Ale - 80, Craft 31 - 40, Cogans Deli - 40, Toby's Hot Dog - 40, Corner Pocket - 25, The CoffeeHouse - 25	Watershed Health and Responsibility
7/3/2018	Jamestown Marina	Trevor Long	No	No	Boaters	unkown	"Our River, Ours to Protect" Sunglass Straps/ Floatable Boat Keychains Coasters/	50, 50	Responsible boating and Watershed Health
9/29/2018	James RiverFest	Trevor Long/ Deirdre Wells	Yes	No	Boaters, Dog Owners, Families in James City County	Approx. 700	Croakies/ Dog Bags/Sweedish Fish/ Reusable Bags/ Key Chain Floats/ Dog Frisbees	100, 224, 54, 100, 48, 33, 34	Importance of the James River and surrounding tributaries
2/19/2019	Colonial Heritage Garden Club	Trevor Long/ Dawn Olesky	No	Importance of Vegetation and Water Quality	Homeowners and Native Planters	Aprox. 40	Coaster/Croakies/ Dog Bags/ Hand Sanitizer	26, 50, 50, 50	Importance of vegetation in Riparian Buffers for Tributaries and Erosion Control.
3/16/2019	Fido Fest 2019	Trevor Long/ Toni Small/ SPAC members	Yes	Dog waste and bacteria impariments	Dog Owners	Aprox. 950	Hand Sanitizer/ Dog Waste Bags/ Coasters/ Croakies/ Dog Frisbees/ key chains/ Reusable Bags	45, 209, 77, 56, 200, 60, 65	Dog Waste, Bacteria Impariments, and water quality

Public Education and Outreach Events
Reporting Year 2018-2019

4/20/2019	Rain Barrel Workshop	Trevor Long	No	Rain Water Harvesting	Homeowners and Native Planters	15	Rain Barrels	15	Reduction of stormwater runoff through home best management practices.
6/8/2019	Williamsburg Farmers Market	Trevor Long/ SPAC members	Yes	Dog waste and bacteria impariments, ecological history	Dog Owners/ Citizens	Aprox. 500	Dog Waste Bags/ Coasters/ Croakies/ Pencils	98, 55, 30, 40	Dog Waste, Bacteria Impariments, and water quality



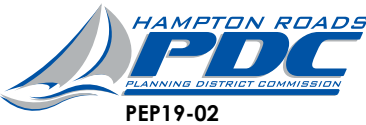


PEP19-02



WORKING TOGETHER FOR A CLEANER, GREENER HAMPTON ROADS

HAMPTON ROADS PLANNING DISTRICT COMMISSION



CHESAPEAKE

James Baker
Robert Geis
Steven Best
Debbie Ritter
Ella Ward

FRANKLIN

Barry Cheatham
Amanda Jarratt

GLOUCESTER COUNTY

Brent Fedors
Phillip Bazzani

HAMPTON

Donnie Tuck
James Gray
Mary Bunting

ISLE OF WIGHT COUNTY

Randy Keaton, Treasurer
William McCarty

JAMES CITY COUNTY

Scott Stevens
Michael Hipple, Chair

NEWPORT NEWS

McKinley Price
Cynthia Rohlf
David Jenkins

NORFOLK

Kenneth Alexander
Douglas Smith
Courtney Doyle
Mamie Johnson
Andria McClellan, Vice Chair

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Eugene Hunt, Jr.

PORTSMOUTH

John Rowe
Lydia Pettis Patton

SMITHFIELD

Carter Williams
Brian Thrower

SOUTHAMPTON COUNTY

Michael Johnson
Barry Porter

SUFFOLK

Leroy Bennett
Patrick Roberts

SURRY COUNTY

Jonathan Lynn
John Seward

VIRGINIA BEACH

Robert Dyer
Barbara Henley
Louis Jones
Guy Tower
Rosemary Wilson
Sabrina Wooten
Vacant

WILLIAMSBURG

Paul Freiling
Andrew Trivette

YORK COUNTY

Neil Morgan
Sheila Noll

Report Documentation

TITLE:

askHRgreen.org Annual Report for Fiscal Year 2018-2019

REPORT DATE

September 2019

GRANT/SPONSORING AGENCY

Local Funds

AUTHORS:

Katie Cullipher
Rebekah Eastep
Elizabeth Vandell

**ORGANIZATION NAME,
ADDRESS AND TELEPHONE**

Hampton Roads Planning District Commission
723 Woodlake Drive
Chesapeake, Virginia 23320
(757) 420-8300
www.hrpdcva.gov

ABSTRACT

The Hampton Roads Planning District Commission (HRPDC) is one of 21 Planning District Commissions in the Commonwealth of Virginia and is a regional organization representing the 17 local governments of the Hampton Roads area. This report provides an overview of the askHRgreen.org regional public outreach program and campaign results for fiscal year 2018-2019. It also provides an overview of the individual initiatives and results from each of the four askHRgreen.org environmental education subcommittees: Recycling and Beautification, Stormwater Education, Water Awareness, and Fats, Oils & Grease Education.

ACKNOWLEDGEMENTS

This report was prepared by the HRPDC staff in cooperation with the member localities. Preparation of this report was included in the HRPDC Work Program for Fiscal Year 2019, approved by the Commission in May 2018.

Robert A. Crum, Jr.
Executive Director / Secretary

About askHRgreen.org

Launched in 2011, askHRgreen.org is more than just a robust website; it is an award-winning comprehensive public outreach initiative. The program combines traditional and social media with grassroots outreach efforts to not only educate, but inspire residents of Hampton Roads to make changes that have a positive impact on the environment. By combining local expertise and taking advantage of economies of scale, the askHRgreen.org program is able to help local jurisdictions fulfill requirements of MS4 permits, groundwater withdrawal permits, and state consent orders to reduce sanitary sewer overflows. For citizens, it has become a "one-stop shop" to find answers, resources, and inspiration for a cleaner, greener Hampton Roads. From earth-friendly landscaping ideas and pointers for keeping local waterways clean to recycling tips and simple steps to make local living easy on the environment, all you have to do is askHRgreen.org.

Financial support for askHRgreen.org is made possible by the following member localities and agencies: the cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach and Williamsburg; the counties of Gloucester, Isle of Wight, James City, Southampton, Surry and York; the town of Smithfield and HRSD. Members of local staff and HRSD comprise four askHRgreen.org subcommittees who meet monthly to develop and implement the regional program.

Recycling and Beautification Subcommittee - A coalition of local government staff members from across Hampton Roads who are working together to share ideas and pool resources for various education programs tailored towards community beautification, litter prevention, and recycling education. This group has been working cooperatively since 1981.

Fats, Oils, and Grease (FOG) Education Subcommittee - A coalition of local government staff members working together with HRSD to protect wastewater infrastructure, reduce sanitary sewer overflows, and improve local water quality. The Subcommittee shares both technical resources and educational strategies to prevent improper disposal of fats, oils, and grease. This cooperative effort has been underway since 2007 when 13 of the region's localities and

HRSD entered into the Regional Special Order by Consent with the Virginia Department of Environmental Quality.

Water Awareness Subcommittee - Regional public utilities staff members who work together to educate citizens about aging infrastructure, the value of tap water, and the importance of water conservation. This cooperative effort to promote the vital role water plays in the quality of life of Hampton Roads and the need to conserve it assists localities in meeting requirements of various locality goals as well as water supply and ground water permit education requirements.

Stormwater Education Subcommittee - A cooperative partnership of the region's seventeen member cities and counties which has served as a formal adjunct to the required public information component of the Virginia Pollution Discharge Elimination System Permits (VPDES) for Phase I and Phase II Municipal Separate Storm Sewer Systems (MS4) since 1997. Local government staff members work together to share ideas and pool resources for various education programs tailored to stormwater pollution prevention.



..... 2018-19 Highlights

eleven million opportunities 
to see or hear about askHRgreen.org

 **58,893** visitors to askHRgreen.org

42 community events with over **350,000** people in attendance 

BAY STAR PROGRAM
 **3,072 homes**  **39 businesses**

 **7,497 students impacted by \$9,668**
in environmental education mini grants

64 pet waste stations installed 
impacting neighborhoods across the region

 **22,000 Green Learning Guides**
printed and distributed to third grade students



@askHRgreen
2,576



@HRgreen
1,701

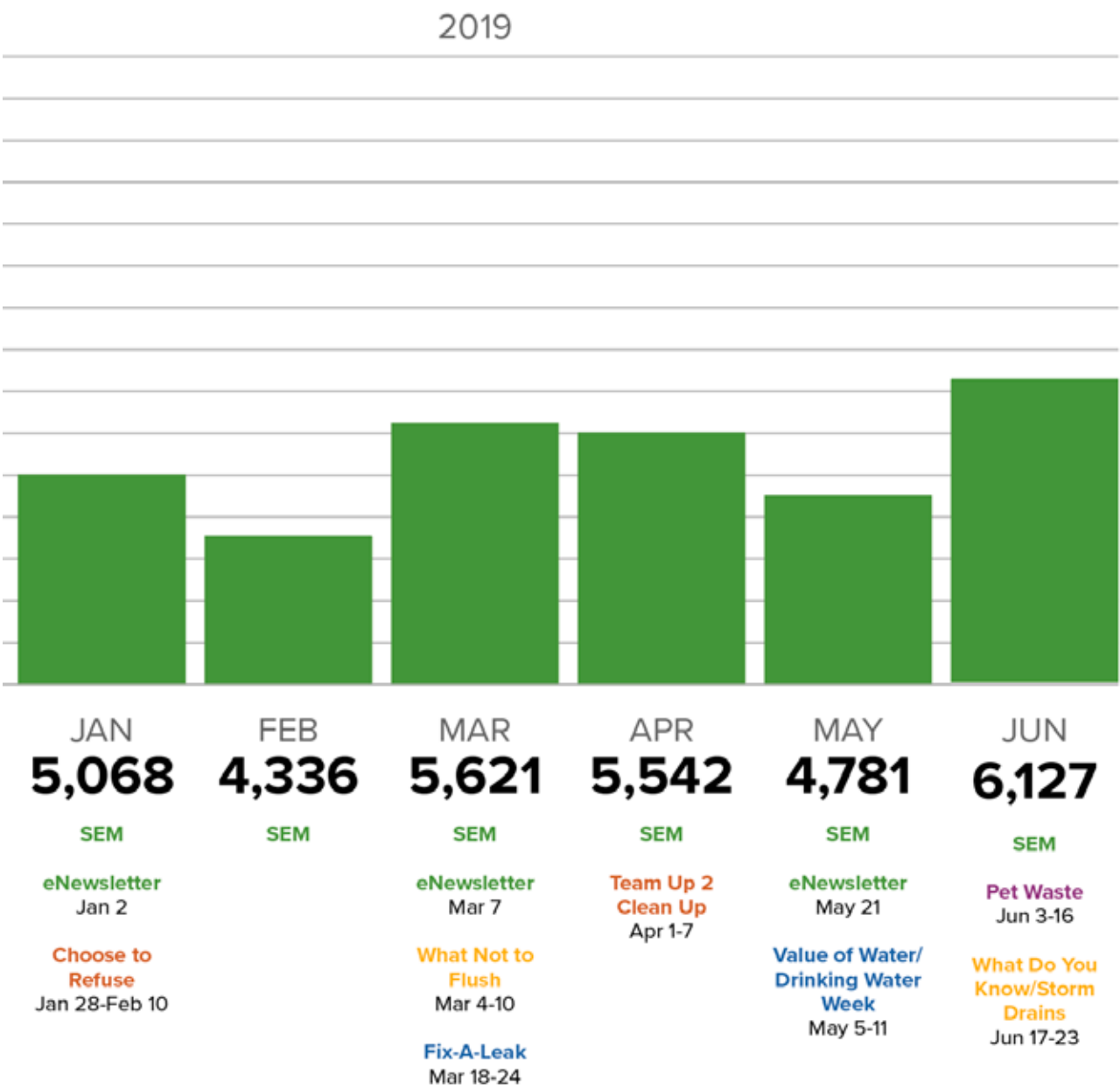
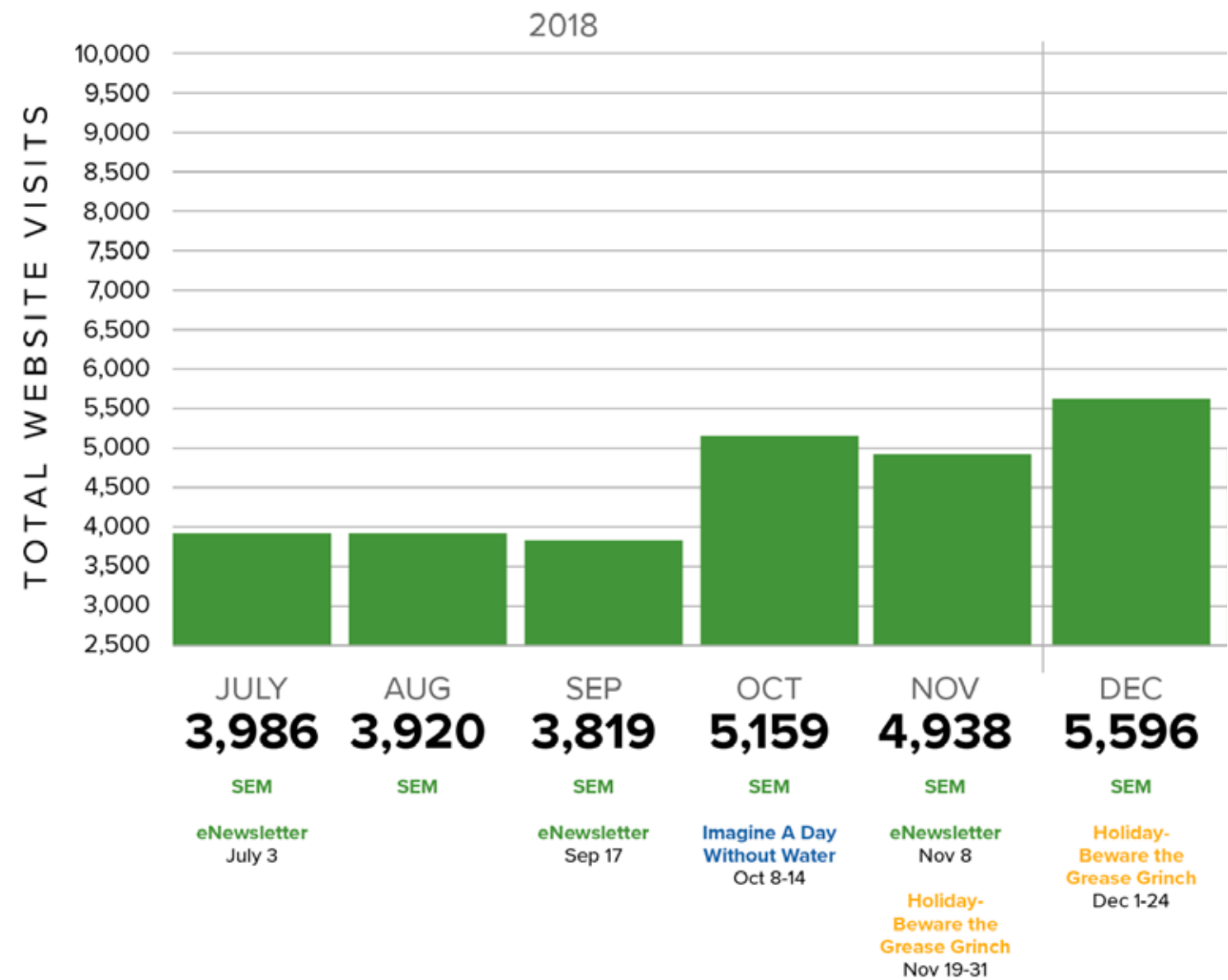


@askHRgreen
249



eNews Followers
7,878

PROMOTIONS + WEBSITE VISITATION



Website Analytics

In December of 2017 we launched a brand new, responsive website for askHRgreen.org, ensuring that all of our content would be delivered seamlessly to any user on any type of device. In FY19, the askHRgreen.org website saw a 5.6% increase in traffic over FY18 and a 9% increase in unique visitors (the number of people accessing the site). We also continue to see an increase in traffic from phones and tablets as opposed to desktop devices, as mobile users climbed to 57% in FY19.

Top Traffic Sources	Sessions
google organic	21,872
wtkr (digital ads & paid search)	16,631
direct	13,278
facebook	2,823
hrfrog.com referral	742
other referral	728
bing organic	439
yahoo organic	234

	2018-19	2017-18	2016-17	2015-16	2014-15
Visits	58,893	55,735	58,113	52,530	58,279
Unique Visitors	49,816	45,661	46,282	42,539	46,994
Pageviews	86,538	93,589	92,681	93,177	103,228
Pages per Visit	1.47	1.68	1.59	1.77	1.77
Average Visit Duration	1:03	1:27	1:12	1:32	1:26
Bounce Rate	81%	77%	79%	75%	75%
% New Visits	84%	81%	80%	80%	80%
Mobile Devices	57%	54%	53%	40%	39%
Desktop Devices	43%	46%	47%	60%	61%

Most Visited Pages	Pageviews
Homepage	9,473
/disposable-diaper-liners-flush-flush/	3,374
/gtk-gtd/recycling-at-home/	3,341
/events-happenings/	3,288
/gtk-gtd/electronics-recycling-donating/	2,423
/campaign/beware-the-grease-grinch/	2,226
/gtk-gtd/plastic-bag-recycling/	1,785
/gtk-gtd/battery-disposal/	1,516
/gtk-gtd/fat-free-drains/	1,423
/programs/great-american-cleanup/	1,392
/campaign/pet-waste/	1,326
/programs/bay-star-homes/	1,249
/dont-trash-the-grass	1,212
/gtk-gtd/restoring-chesapeake-bay/	1,135
/campaign/choose-to-refuse-single-use-plastic/	1,101
/gtk-gtd/plant-native-plants/	1,096
/gtk-gtd/lawn-garden-best-practices/	1,071
/blog/	1,009

Search Engine Marketing

The askHRgreen.org Search Engine Marketing (SEM) program employs Google pay-per-click advertising to increase traffic to the askHRgreen.org website. By bidding on select keywords and phrases, our ads direct search traffic to relevant content on the askHRgreen.org website.

In FY19, we had more than 210,000 Google search impressions from our ad campaigns which drove over 11,000 clicks (a 51% increase from FY18) to relevant content on the askHRgreen.org website for a click thru rate of 5.26%.

That translates into one click to the website for every 20 askHRgreen.org ads that appear in Google search results. See appendix A for the full SEM report for FY19.

	2018-19	2017-18	2016-17
Impressions	210,695	169,140	107,920
Clicks	11,087	7,330	4,226
CTR (click-thru rate)	5.26%	4.33%	3.92%

Ad Group	Impressions	Clicks	Cost	CTR	Avg. CPC
Electronics Disposal	28,527	2,296	\$2,887.43	8.05%	\$1.26
Reduce Reuse Recycle	27,630	1,584	\$2,318.04	5.73%	\$1.46
TMDL	21,119	1,218	\$1,756.77	5.77%	\$1.44
Recycling At Home	21,741	843	\$1,170.26	3.88%	\$1.39
Native Plants	19,615	769	\$963.02	3.92%	\$1.25
Battery Disposal	9,017	673	\$765.62	7.46%	\$1.14
Great American Cleanup	12,199	547	\$756.10	4.48%	\$1.38
askHRgreen General	3,467	484	\$285.25	13.96%	\$0.59
Medication Diposal	6,347	425	\$503.88	6.70%	\$1.19
Tap Water	8,549	337	\$490.08	3.94%	\$1.45
Plastic Bag Recycling	4,866	303	\$351.29	6.23%	\$1.16
Fertilizer Tips	7,471	216	\$325.28	2.89%	\$1.51
America Recycles Day	2,087	211	\$309.18	10.11%	\$1.47
Rain Barrels	5,626	183	\$230.09	3.25%	\$1.26
Lawn Care	9,029	166	\$256.77	1.84%	\$1.55
Team Up 2 Clean Up	3,252	128	\$192.36	3.94%	\$1.50
Soil Testing	4,401	127	\$176.08	2.89%	\$1.39
Rain Garden	2,392	82	\$91.94	3.43%	\$1.12
Water Conservation	1,593	75	\$86.92	4.71%	\$1.16
Stormwater	991	57	\$83.22	5.75%	\$1.46
Pet Waste	2,125	57	\$73.35	2.68%	\$1.29
Yard Waste Disposal	1,964	57	\$84.77	2.90%	\$1.49
Food Disposal	2,342	48	\$69.38	2.05%	\$1.45
Bay Star Homes	217	47	\$33.68	21.66%	\$0.72
Fats Oil Grease Disposal	1,009	41	\$60.37	4.06%	\$1.47
	210,695	11,087	\$14,472.56	5.26%	\$1.31

Community Outreach

Events

Each year askHRgreen.org receives numerous invitations to participate in community events. This is a vital touchpoint with residents in Hampton Roads. While some events appeal to green-minded residents, many are geared towards the general public. This provides an important opportunity for askHRgreen.org volunteers to share information about eco-friendly behaviors with those who may be hearing them for the first time. One important engagement tool for community events is the askHRgreen.org trailer. Originally part of the HR WET program formed in the early 1990s, the trailer was first wrapped with an askHRgreen.org design in 2011. The four askHRgreen.org committees worked together to fund important repairs to the trailer in FY19. The repairs included a new wrap designed to match the updated askHRgreen.org website; repairing punctures to exterior sheet metal; and new tires, marker lights, window seals, electrical wiring and more. In total, the askHRgreen education committees invested about \$6,500 to extend the life of the askHRgreen.org trailer.

From employee appreciation days to home improvement shows to the Virginia State Fair, community events provide askHRgreen.org volunteers an opportunity to network with residents and distribute program materials including promotional items and brochures. Events are a critical part of increasing the following of the askHRgreen.org newsletter. In FY19, over 225 people signed up to receive our news and information during outreach events. In addition, more than 325,800 event attendees may have seen askHRgreen.org materials or interacted with program volunteers at the 42 events attended in 2018-2019.



2018-2019 Regional Events			Estimated Attendance
8/18	Unity in the Community	Chesapeake	500
8/25	Bufflow Family & Friends Community Day	Chesapeake	1000
9/8	Go Green Festival	Newport News	1000
9/29	James Riverfest	Williamsburg/James City County	600
10/1	Virginia State Fair	Doswell, VA	250000
10/4 - 10/7	Peanut Festival	Suffolk	50000
10/23 -	Hill Environment, Health & Safety Expo	Newport News	2100
10/29	6th Annual Monster Mega Mixer &	Virginia Beach	800
11/3	Litter & Recycling Expo	James City County	100
11/8	Canon Virginia Annual Safety &	Newport News	unavailable
11/13	Anthem Eco Fair	Virginia Beach	300
11/15	Anthem Eco Fair	Norfolk	300
12/14	Continental Automotive Energy &	Newport News	150
1/12	Jam'n Jamz	Norfolk	400
1/14 - 1/17	Home Gardener Day + MAHSC	Virginia Beach	677
1/25 - 1/27	Virginia Flower & Garden Expo	Virginia Beach	unavailable
2/9 - 2/10	Hampton Roads Home Show	Hampton	5200
2/10	Engage Norfolk	Norfolk	150
2/19	Colonial Heritage Garden Club	Williamsburg/James City County	75
3/9	CA Day	Virginia Beach	641
3/20	Las Gaviotas Green Forum	Chesapeake	20
3/23 - 3/24	Mid Atlantic Home & Outdoor Living Show	Virginia Beach	4525
4/6	Southern Chesapeake Community Day	Chesapeake	unavailable
4/6	Hampton Touch a Truck	Hampton	101
4/14	Wings & Things Spring Fling	Portsmouth	unavailable
4/18	Norfolk Naval Shipyard Earth Day Fair	Norfolk	300
4/20	Virginia Living Museum Earth Day	Newport News	1300
4/22	TCC Cares	Chesapeake	100
4/23	VA AWWA 30th Annual Water Distribution	Norfolk	75
4/27	Celebrate the Park	Newport News	400
4/27	Community Empowerment Day	Newport News	200
4/28	Stand Up Rally and Expo	Williamsburg	150
5/8	City of Virginia Beach Public Utilities	Virginia Beach	275
5/10	City of Suffolk Employee event	Suffolk	1400
5/11	Virginia Landscapes Exhibition at the	Newport News	150
5/16	Sensible Seafood Fest	Virginia Beach	400
5/23	City of Virginia Beach Public Works	Virginia Beach	415
5/31	CARE and Wellness day	Chesapeake	250
6/2	Colonial Coast Girl Scout World	Chesapeake	50
6/6	NASA Langley Safety & Health Expo	Hampton	500
6/23	Elizabeth River Fest	Virginia Beach	3000
6/28	TGIF Summer Concert Series	Suffolk	200

Bay Star Homes

The Bay Star Homes program entered its third year of operation in FY19. The program recognizes residents who pledge to avoid environmentally-harmful behaviors and encourages private property owners to implement voluntary stormwater management practices such as rain barrels, rain gardens, and downspout disconnects. Residents are also encouraged to incorporate more environmentally-friendly choices into their daily routines such as waste reduction and fat free drains. In FY19, there were 379 new Bay Star Homes added across the region, bringing the program total to nearly 3,100 households.

Bay Star Homes Registrants	
City/County	Number
Chesapeake	130
Franklin	13
Gloucester	19
Hampton	106
Isle of Wight	9
James City	10
Newport News	211
Norfolk	2092
Poquoson	15
Portsmouth	36
Smithfield	13
Southampton	2
Suffolk	134
Surry	2
Virginia Beach	204
Williamsburg	8
York	68
Total	2,708



Great American Cleanup

The Team Up 2 Clean Up (TU2CU) program moved from education to action during FY19. Launched in 2018, the TU2CU program makes it easier for residents and businesses alike to get involved with litter prevention and cleanup initiatives. An online outreach toolkit includes resources for everyone from schools and civic leagues to businesses and neighbors. Anyone can download these resources to educate their peers/employees about litter.

During FY19, the askHRgreen.org Recycling & Beautification Committee hosted a National Kickoff to the Great American Cleanup on May 3-4, 2019. In partnership with Keep Virginia Beautiful, the Committee worked together to plan cleanup and beautification projects in 13 Hampton Roads localities on each day of the event. Volunteers were recruited through the website, social media, newsletters, paid media, and word of mouth. In the end, 71 public spaces were improved through the work of over 1,000 volunteers. Improvements included removing more than 15 tons of litter from the environment including over 150 tires, as well as tending community gardens by weeding, spreading mulch, and planting new plants and trees. Odd and unusual finds from the litter cleanup were set aside and delivered to local scrap artist, Sam Hundley, who transformed found objects into a trash-to-treasure art piece to commemorate the event and extend the TU2CU message throughout the community. The artwork will be on display in venues across the region in 2019 and 2020 to inspire citizens to get involved with cleanup initiatives.



Imagine a Day Without Water

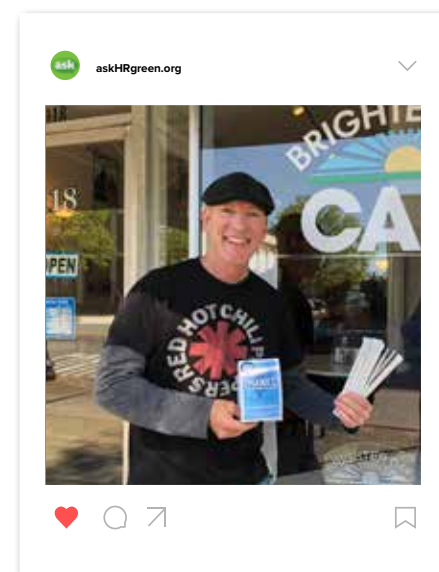
Municipal water services are a vital service for both residents and businesses in Hampton Roads. Local breweries and coffee shops are particularly dependent on a consistent supply of clean, healthy tap water. Tapping into these natural advocates for clean water, the askHRgreen.org Water Awareness Committee partnered with local breweries and coffee shops to raise awareness about the importance of water. The campaign included branded coffee sleeves and coasters that donned messages illustrating that coffee and beer are 95-99 percent water.

This special promotion engaged 23 local breweries and coffee shops around the region. The coffee sleeves and coasters were distributed starting on October 10, 2018, as part of the national Imagine a Day Without Water campaign. This advocacy and awareness campaign addresses the importance of maintaining the water and wastewater systems that bring a steady flow of water to and from residents, businesses, schools, hospitals and emergency outlets. Two videos were produced with Traditions Brewing and Coaster Coffee to give business owners an opportunity to talk about the important role water plays in brewing their beverages of choice. The campaign was also supported on social media and extended through the social media accounts of partnering establishments.



Straw-Free Earth Day

Single use plastics, particularly straws, received considerable international attention in FY19. In order to leverage the increased public awareness surrounding this issue, the askHRgreen.org Recycling & Beautification Committee recruited restaurants to go straw-free for Earth Day in April 2019. In partnership with Keep It Beachy Clean and Clean Virginia Waterways, the Committee asked restaurants to supply straws only upon request on April 22nd and, if possible, for the preceding weekend. The Committee provided participating restaurants with a sample of paper straws to provide to customers who requested a straw during the promotion, as well as branded window clings, menu cards, table tents, and educational placemats. These materials helped educate the public about the wastefulness of straws and encouraged everyone to skip the straw. Through grassroots outreach, 69 restaurants across seven localities joined this campaign and went straw-free for Earth Day.

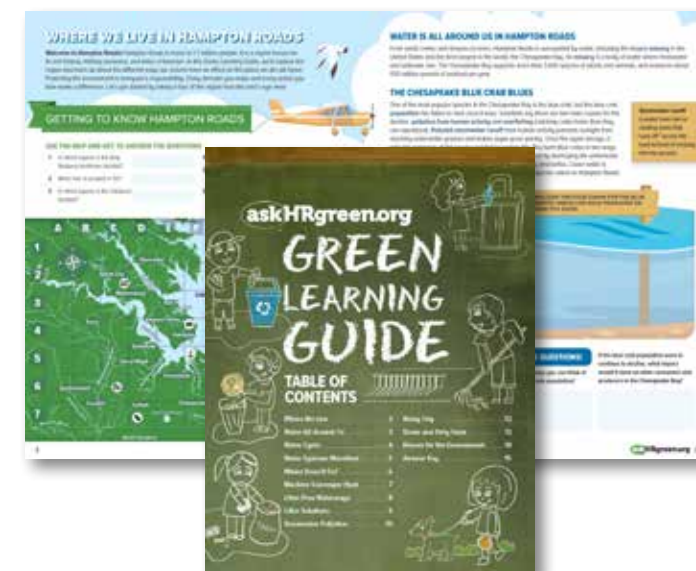


Green Learning Guide

Completed in FY18, the second edition of the askHRgreen.org Green Learning Guide was tailored to fit the environmental education needs of the region's third grade students. With help from a Chesapeake Bay Restoration Fund grant and financial support from local cities and counties, the third grade Green Learning Guide was designed to meet Virginia SOL standards, making it easy for teachers to bring environmental concepts into the classroom. These free guides showcase educational content in a fun, interactive format with colorful maps, bold graphics, and creative activities to connect students to our Hampton Roads environment. A similar sixth grade Green Learning Guide was first published by askHRgreen.org in 2012, but the third grade edition was brand new for the 2018-19 school year.

During the fall of 2018, HRPDC staff worked with local science coordinators and other school administrators in the 13 school districts of Hampton Roads to develop a distribution strategy to get free copies of the Green Learning Guide into the hands of every third grade public school student in the region. In total, about 22,000 copies of the guide were provided to schools at no charge. Once distribution was complete, there were about 9,000 copies remaining, which will be available on demand for private schools, homeschool students, and third grade students during the 2019-2020 school year.

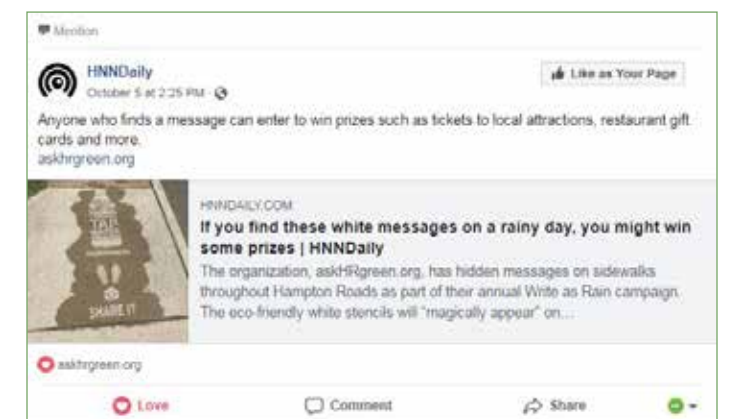
Both editions of the Green Learning Guide and accompanying teacher's guides are available for download on the askHRgreen.org website.



Sidewalk Message Campaign

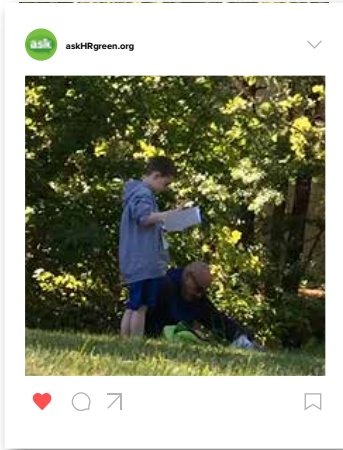
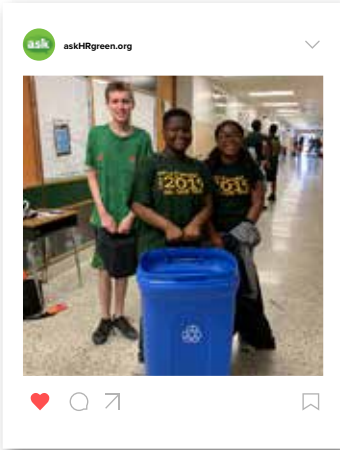
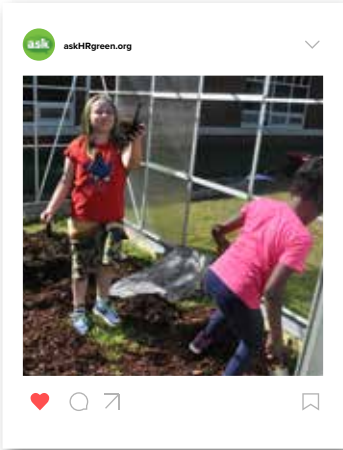
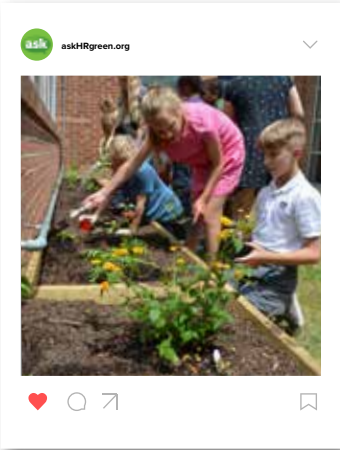
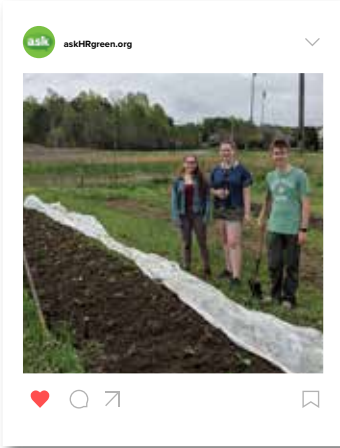
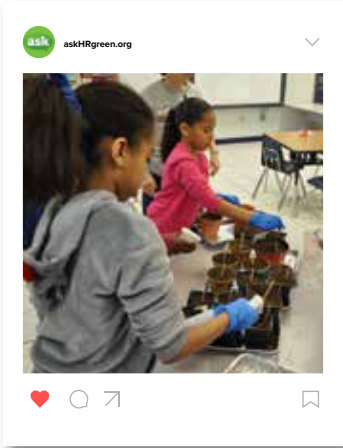
All four askHRgreen.org education committees worked together to revamp the Write as Rain project in FY19. Originally launched in 2017, the Write as Rain campaign involves installing stylized messages on sidewalks around the region using a hydrophobic spray that allows the messages to be seen only after rain.

The FY19 outreach strategy specifically targeted youth and their parents. In advance of the new school year, local staff partnered with schools and community centers to install messages to area sidewalks. This year's four new designs asked students and parents to make a pledge for a cleaner environment. Messages included "Purge the plastic, I choose tap water," "I won't stand for litter," "I pledge only rain down the drain," and "I won't add wipes to our pipes." The campaign was accompanied by a social media contest asking residents to post pictures of the stencils in exchange for a chance to win gift certificates to local restaurants and attractions. In total, nearly 80 locations across nine cities and counties were tagged with a Write as Rain message as part of this campaign.



Environmental Education Mini Grant Program

Supporting environmental education in the classroom has been a long standing commitment of askHRgreen.org. With a small amount of grant funding, local educators are able to spark an idea in the minds of our region’s youth and encourage tomorrow’s leaders to make a positive impact on our environment. askHRgreen.org offers all Hampton Roads teachers (K-12), youth leaders, or organizations working with youth environmental education mini grants of up to \$500 to provide funding for environmentally-themed projects. In FY19, \$9,668.06 in grant funding was awarded to support 20 projects in and out of the classroom. These projects reached nearly 7,500 students across Hampton Roads and included drip irrigation for water conservation, demonstration rain gardens, air quality monitoring, new recycling programs, upcycled trash cans and bottle caps, and for the first time, a schoolyard chicken coop.



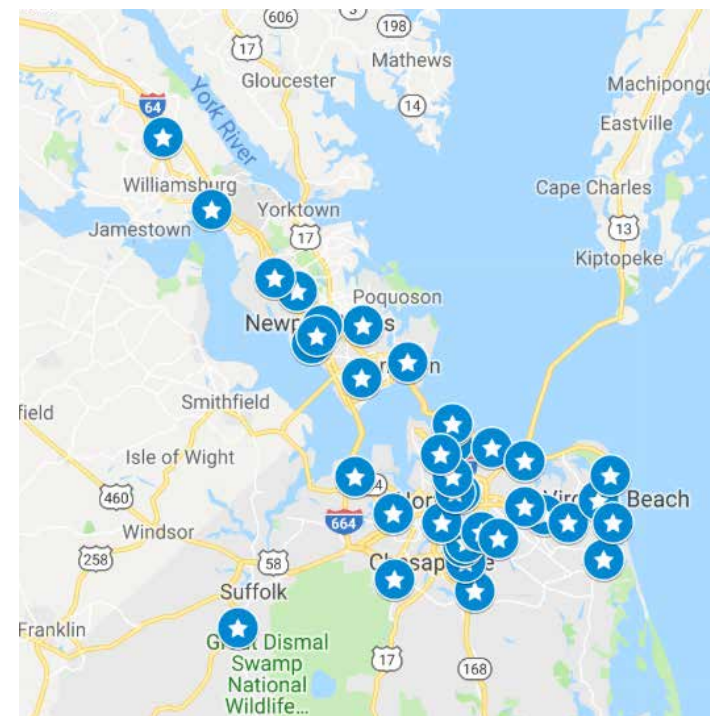
Project	# Students	Project Description	School/Organization	City/County	Grant
Be Fantastic, Use Less Plastic	1200	This project will install water bottle filling stations at Hugo Owens Middle School.	Hugo Owens Middle School	Chesapeake	\$500.00
Butterfly and Bee Garden	397	A butterfly garden was planted at Barron Fundamental Elementary School.	Barron Fundamental Elementary School	Hampton	\$250.00
Chicken Coop in Our Garden	40	This project funded a chicken coop designed and constructed by garden club students.	Maury High School	Norfolk	\$500.00
Community Learning Garden and Beautification Project	40	This project mitigated drainage issues along the front walkway to Saunders Elementary and the installation of a community learning garden.	Saunders Elementary/ Youth Volunteer Corps of Hampton Roads	Newport News	\$500.00
Creating, Conserving, and Protecting Monarch Habitats	569	This project features a compost bin, and raised garden beds to be built in the fall. Students also will place milkweed with butterfly eggs in mesh cages to observe the life cycle of the butterfly.	Great Bridge Primary School	Chesapeake	\$500.00
Downstream Collaborative	79	This grant sought to create and support meaningful watershed opportunities that connect students with community partners.	Kempsville Meadows Elementary School	Virginia Beach	\$500.00
Drip Smart	80	The Drip Smart project helped convert the Williamsburg Community Growers farm to a drip irrigation system.	Williamsburg Community Growers	Lightfoot	\$500.00
Eaton Middle School Lunch Recycling Program	650	This project helped create a lunchroom recycling and composting program run by Ecology Club students.	Eaton Fundamental Middle School	Hampton	\$418.06
Granby Go Green	20	This project beautified the garden and repaired a trellis at Granby High School.	Granby High School	Norfolk	\$500.00
Green Run Demonstration Rain Garden	42	This project installed a rain garden at Green Run High School.	Green Run High School	Virginia Beach	\$500.00
Keeping the Chesapeake Bay Clean	925	This project provided library books about environmental stewardship to Western Branch Middle School.	Western Branch Middle School	Chesapeake	\$500.00
Keeping the Vibrance and Learning in Our Gardens	530	This project was a continuation of a multi-year effort at to expand Newtown's morning garden club.	Newtown Elementary School	Virginia Beach	\$500.00
Lights of Love for the Hague	50	The Lights of Love Attraction created a walking path around the Hague with luminaries decorated by guests and facilitated by volunteers from Maury High School.	Breathe Easy and Smile Yoga Co.	Norfolk	\$500.00
Little Hands Big Clean Up	600	This project implemented a recycling program at Granby Elementary School.	Granby Elementary School	Norfolk	\$500.00
Norfolk Academy Pollinator Garden	400	This project involved building raised bed gardens and a new greenhouse at Norfolk Academy.	Norfolk Academy	Norfolk	\$500.00
One Man's Trash is Another Man's Treasure	25	This beautification project took trash cans throughout the school and transformed them into works of art.	Western Branch Middle School	Chesapeake	\$500.00
Plants & Air Quality	100	This project will fund the use of an Air Quality Egg learning system in York County high schools.	York County Beautification Committee	Yorktown	\$500.00
Plastic Bottle Art	150	This project will continue efforts at Lakeland High School to create art from recycled items.	Lakeland High School	Suffolk	\$500.00
Snip-N-Drip	1400	This project installed a watering system in the school pollinator and vegetable gardens.	Old Donation School	Virginia Beach	\$500.00
Soak Up the Rain!	200	This project guided students to create a rain garden in an eroded area and conduct monthly litter clean-ups.	Spratley Gifted Center	Hampton	\$500.00
7,497					\$9,668.06

Business Outreach

Bay Star Business Program

Launched in June 2018 by the Stormwater Subcommittee, the Bay Star Business Program offers a free, pledge-based program to Hampton Roads companies that are committed to protecting water quality in the region. Business owners sign up online and select at least five of 15 suggested practices to become part of the program. Practices promoted through the program include conserving water, recycling, cleaning and preventing litter, maintaining company vehicles, organizing a community cleanup, and more. Most action items are no- or low-cost solutions to help businesses run more efficiently while being stormwater stewards. In return for their pledge, HRPDC staff mails the business a welcome packet including pertinent information from askHRgreen.org and the city or county in which they operate, as well as Bay Star Business window clings to display in their office or on company vehicles. Participating businesses also receive recognition on the askHRgreen.org website and Facebook page.

New in 2019, a Google map was added to the website to visually display all participants. This makes it easier for residents to find a Bay Star Business near them while also illustrating the geographic reach of the program. The



program has grown to include nearly 40 companies in its first year from a diverse range of businesses including real estate firms, landscapers, museums, marinas, schools, and restaurants.

Fats, Oils, and Grease (FOG) Commercial Training and Certification Program

The regional FOG training and certification program is designed to educate local food service workers and grease haulers on how to prevent sanitary sewer backups caused by improper handling and disposal of fats, oils, and grease. FOG certification requirements vary by locality, and the free certification program is available to anyone through the HRFOG.com website.

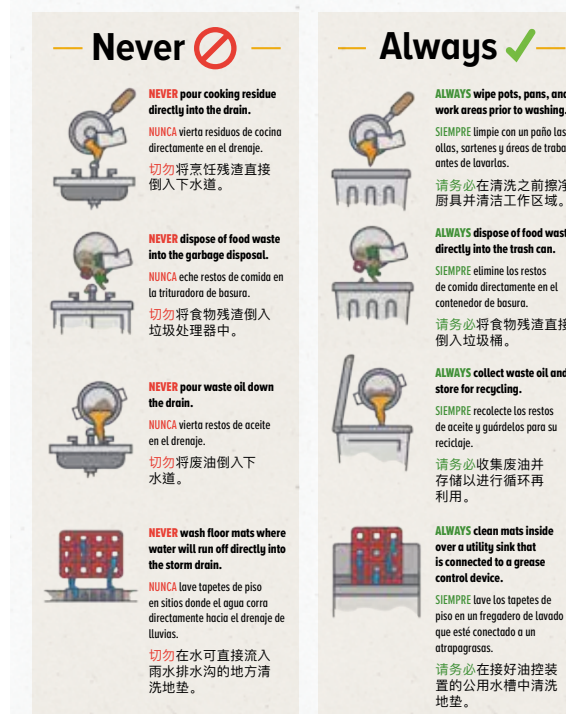
Various updates and enhancements were made to HRFOG.com during FY19. The changes improved the user experience but also made it easier for administrators to clean up and manage data. HRPDC staff now have access to data pulls from the database making it possible to proactively monitor the database for fraudulent accounts and duplicate user and business profiles. The developer has also taken the first steps to convert the website to a responsive design. Once the conversion is complete, FOG program administrators will be better able to administer tests in the field and will have to rely less often on paper tests.



The FOG Education Subcommittee also produced two new brochures to use in outreach to local restaurants. The first combines the best management practices poster with descriptions of FOG, common sources, and how to comply with local FOG ordinances. The second piece was developed to help FOG inspectors educate local restaurant owners about proper storage and management of yellow grease, including how to respond to spills.

In FY19, the FOG Education Subcommittee reviewed the 2007 Memorandum of Agreement (MOA) between HRSD and participating localities. It came to light that not all localities had adopted the MOA when it was originally created in 2007. The Subcommittee recommended several changes to the document to be more inclusive for localities that do not have a FOG ordinance or no FOG enforcement program. The updated MOA was presented for review and approved by the Directors of Utilities. Each locality plans to formally adopt the new MOA during FY20.

Managing Fats, Oils and Grease



For more information, please contact the askHRgreen.org FOG Program
757 420 8300 | HRFOG.com

Illicit Discharge Rack Cards

Certain industries have a greater potential to discharge harmful waste into the stormwater system and local waterways through the course of their work. In order to arm local stormwater inspectors with better tools for education and outreach, the askHRgreen.org Stormwater Education Subcommittee developed industry-specific rack cards for the following high priority industries: lawn care and landscaping, automotive services (such as car dealers, repair shops, and fleet maintenance), and animal services (including animal boarding facilities, animal shelters, pet groomers, and veterinary offices). Each rack card addresses sources of pollution produced by that industry and recommends the proper steps to take to prevent illicit discharges.

The Subcommittee targeted the lawn care industry further by mailing letters and educational resources to landscaping businesses licensed in the following cities: Chesapeake (51), Hampton (40), Newport News (257), Norfolk (208), Portsmouth (188), Suffolk (211), and Virginia Beach (397). In total, 1,352 letters were mailed to landscape and lawn care companies in Hampton Roads to help companies better understand how they can comply with local stormwater requirements and prevent water pollution from illicit discharge.



2018-19 Media Campaigns

Waste Reduction

With turbulent recycling markets and changing municipal recycling contracts, the priority of the Recycling & Beautification Subcommittee has increasingly focused on waste reduction. While recycling education continues to be an important initiative, the waste reduction message helps residents decrease their waste contribution no matter the state of recycling. The Subcommittee's message for residents is that we should all choose to reduce our waste production first before focusing on what can and cannot be recycled.

Paid Media. A one-week radio, two-week digital media campaign ran from January 28 to February 10, 2019. The campaign included new creative using the theme Choose to Refuse. The campaign focuses on single use plastics including bottled water, straws, utensils, take out containers, and plastic bags. Viewers are urged to refuse disposable products and choose reusable alternatives. The campaign included radio, Spotify, digital display ads and retargeting, native content ads, social media, and targeted pre-roll. Throughout the year, specific waste reduction messages were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. In support of the waste reduction message, the Committee purchased reusable portable cutlery sets and reusable straws to distribute at outreach events. Both items provide a practical alternative to help residents reduce their use of single use disposable plastics.

Public Relations. Public relations support succeeded in promoting the waste reduction message through a variety of media channels including news releases, interviews with local TV (WTKR) and radio shows, print coverage (Suffolk News Herald, Southside Daily), and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach included sharing waste reduction tips, upcycling projects, and stories about the negative environmental impacts of plastics and our throw away culture. The paid Facebook

campaign for the Choose to Refuse campaign was the highest performing campaign in FY19, reaching over 106,000 users in February 2019.



Litter Prevention

Litter was a major focal area for the Recycling & Beautification Committee in FY19. In partnership with Keep Virginia Beautiful, the Committee organized and hosted the National Kickoff to the Great American Cleanup on May 3-4, 2019. More than 1,000 volunteers took to the streets to remove litter from parks and roadways, plant trees, tend gardens, and freshen up public spaces across Hampton Roads. In total, 71 locations across 13 cities and counties were spruced up as a result of the effort. The Committee also promoted litter prevention and the Team Up 2 Cleanup campaign in the following ways:

Paid Media. A one-week media campaign ran from April 1-7. The campaign included radio and social media. The purpose of the campaign was to educate residents about local litter problems and recruit volunteers to take action by joining one of the events planned for May 3-4. Throughout the year, specific litter prevention messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. Through the Virginia Litter

Prevention and Recycling Competitive Grant, the Committee purchased 800 class 3 hi-vis safety vests with the Team Up 2 Clean Up logo imprinted on the back. The new vests improve morale among volunteers and help identify roadside cleanups as voluntary acts of community service.

Public Relations. Public relations was an important part of litter prevention messaging in FY19. Messages about litter prevention and cleanups were featured in various media channels including news releases, interviews with local radio and TV shows (WCTV, WVEC, Wavy, WTKR), print coverage (Coastal Virginia Magazine), Write as Rain messages, and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included the negative impacts of litter, advertising cleanup opportunities, and reporting the results of local litter cleanups. The aftermath of Floatopia, an unofficial event in Virginia Beach over Memorial Day Weekend that resulted in tons of litter left on Chic's Beach, was a hot topic on social media in FY19.

Residential Recycling Practices

Due to turbulent recycling markets and changes in municipal recycling contracts, the Recycling & Beautification Subcommittee was hesitant to put a lot of resources into paid media around recycling in FY19. They did, however, continue to include recycling messages in all other marketing channels and began work to develop a web lookup tool that will make it easier for residents to find out what is (and is not) recyclable in each city/county in Hampton Roads. The new tool will be available on the askHRgreen.org website in FY20.

Paid Media. Throughout the year, specific recycling topics were featured in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword

searches. Recycling continues to be the top driver of website traffic from the SEM campaign.

Public Relations. News releases on Christmas tree recycling and America Recycles Day were issued. The America Recycles Day release discouraged "wishful" recycling in an effort to help reduce contamination. The recycling message was also included in a variety of media channels including news (Suffolk News Herald, The Virginian Pilot, Hampton Newport News Daily), interviews with local radio and TV shows (WTKR), and multiple articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach included sharing recycling news and trending stories, answering recycling questions, and promoting local recycling collection events. HRPDC staff created a series of "Recycle This, Not That" graphics to feature on the askHRgreen Facebook and Instagram account for America Recycles Day.

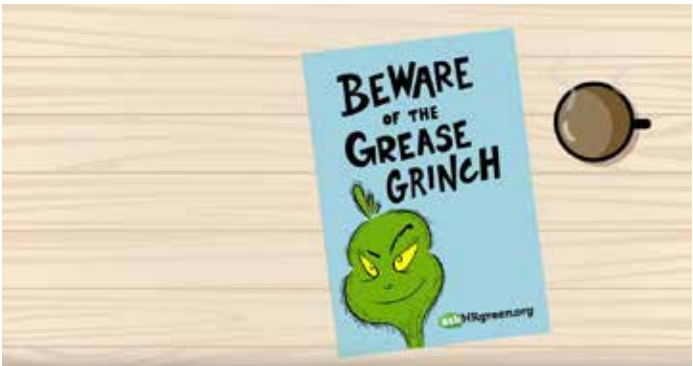


Fats, Oils & Grease (FOG) Disposal

The FOG Subcommittee focuses each year on helping residents and local restaurants understand what FOG is, where it comes from, how it harms the sanitary sewer system, and the best management practices needed in

order to prevent sanitary sewer overflows. This focal area was addressed with the following strategies:

Paid Media. The Committee created a new holiday FOG message in FY19. The “Grease Grinch” spot took viewers through a holiday cooking scene with a lurking Grease Grinch ready to spoil the holiday fun with a backed up drain. The campaign ran online for five weeks (digital display ads and retargeting, social media, targeted pre-roll, digital TV) and on radio for two weeks. Throughout the year, specific FOG messages were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.



Outreach Materials. The FOG Subcommittee continued to distribute relevant promotional items including sink strainers, grease can lids, sponges, washcloths, and more.

Public Relations. Public relations supported public education and outreach through a variety of media channels including news releases, print coverage (Southside Daily), interviews with local radio and TV shows, and multiple articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included the negative impacts of improper grease disposal, fatbergs, canning the grease, and the importance of infrastructure.

What Not to Flush

The FOG Subcommittee continues to educate the public about proper flushing etiquette and the harmful side

effects of flushing personal hygiene products like wipes, dental floss, cotton swabs, and more:

Paid Media. The Subcommittee used the “man on the street” style video campaign and a new radio creative for a one-week media campaign. The video shows local residents guessing what items are flushable or not. The newly developed radio spot reflected the Q&A format as two men discuss wipes and other items that should not be flushed. The campaign included radio, digital display ads and retargeting, social media, targeted pre-roll ads, and digital TV. Throughout the year, specific “what not to flush” messages were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.



Outreach Materials. The FOG Subcommittee continued to distribute washcloths and toilet stress squeezers to support the message.

Public Relations. Public relations supported the what not to flush message through a variety of media channels including news releases, interviews with local radio and TV shows, and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included the damaging side effects of flushing trash, deragging photos, proper medication disposal, and the myth of flushable wipes.

Communicating the Value of Water

The Water Awareness Subcommittee continued to promote the value of water to the Hampton Roads

community. Beyond our daily needs, water also fuels our economy, fire protection, sanitation, and public health:

Paid Media. Throughout the year, specific messages about the value of water were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. There were also two separate media campaigns for the value of water message during FY19, both coordinating with larger national awareness campaigns.

Imagine a Day Without Water. A one-week media campaign ran from October 8-14 to coincide with the national “Imagine a Day Without Water” initiative. The campaign included radio, digital display ads, native content ads, social media, and advanced TV. The paid campaign complimented the partnership with local breweries and coffee shops to distribute branded coasters and coffee sleeves on October 10. The video assets were pickups of videos previously produced which illustrate the importance of tap water for local quality of life. Similarly, the new radio creative features two men discussing the value of water and all the things they would miss without access to tap water.



Drinking Water Week. A one-week media campaign ran from May 5-11 as part of the national Drinking Water Week awareness campaign from American Water Works Association. The campaign included radio, digital display ads, native content ads, social media, and advanced TV.

The campaign creative again featured the new radio spot with two men discussing the value of water. The video assets were also a pickup, but this time used the “man on the street” style video with diverse people explaining in one word what water means to them.

Outreach Materials. The Committee continued to distribute a variety of promotional items including water bottles, mood pencils, sponges, toothbrushes, and more.

Public Relations. Public relations exposure came from features on various media channels including news releases, print coverage (Williamsburg-Yorktown Daily, Southside Daily, Hampton Newport News Daily, The Virginia Gazette), interviews with local radio and TV shows, Write as Rain messages, and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. HRPDC staff produced two videos featuring owners of Traditions Brewery in Newport News and Coaster Coffee in Norfolk as they discussed the important role water plays in operating their business and what would happen on a day without water. The videos were promoted on social media during the Imagine a Day Without Water campaign.

Water Conservation

The Water Awareness Subcommittee continued to raise awareness about conserving water in Hampton Roads. Central topics for this focal area include fixing leaks, water-conserving landscaping practices, WaterSense fixtures, and general indoor/outdoor conservation tips.

Paid Media. In promotion of Fix-a-Leak Week, a nationwide campaign from EPA, a one-week media campaign ran from March 18-24. The campaign utilized a new video creative showing locals answer questions about water waste and how to find and fix a leaky toilet. The campaign included radio, digital display ads, native content ads, social media, and advanced TV. Throughout the year, specific water conservation messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Subcommittee distributed numerous promotional items to help remind residents to conserve water. Items included rain gauges, 5-min shower timers, toilet leak detection dye tablets, black-eyed Susan seed packets, and hose nozzles. They also developed a new print brochure to help residents detect and fix common household water leaks.

Dripping faucets and running toilets are more than a nuisance; **they waste water and they cost you money.**

Other water leaks are less noticeable, but if your water bill sky-rockets for no apparent reason, chances are you have a leak. Finding and fixing household leaks is typically an easy and inexpensive do-it-yourself project.

HOW TO DETECT A LEAK:

- 1. Check your water meter.** Turn off all water inside and outside. Locate your water meter and jot down the figures. Wait 15 to 20 minutes and read it again. Have the numbers changed? If so, there's a leak somewhere.
- 2. Monitor your water bill.** Pay close attention to your water consumption. Big increases in your water consumption could point to a silent leak, especially in the winter months when outdoor watering needs are low.
- 3. Use a leak detection dye tablet** to check your toilet for leaks and you'll know for sure. (Detailed instructions inside.)

Need help? Contact your water utility.

FIXING ANNOYING DRIPS:

If your leak is a drip you can see coming from a shower, sink or faucet, check for worn washers.

HOW TO REPLACE A WORN WASHER:

- 1. Shut off the water** at the nearest or main shutoff valve.
- 2. Relieve pressure** by running the faucet until dry, then loosen the cap nut and remove the faucet handle and assembly.
- 3. Unscrew the brass setscrew** to remove the old washer.
- 4. Wipe the area clean, then install the new washer.**
- 5. Replace the setscrew and faucet assembly.** Turn the faucet handle as far as possible to close it, then loosen it slightly.
- 6. Replace the cap nut and turn off the faucet** before turning the water back on at the shutoff valve.

FIND & FIX WATER LEAKS

TO SAVE WATER AND MONEY

Average household leaks add up to almost **10,000 gallons of water** wasted per year. That's enough to wash **300 loads of laundry.**

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org

Public Relations. Conservation messages were featured in various media channels including news releases, print coverage, interviews with local radio and TV shows, and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included rain barrels, the use of drought tolerant and native plants, finding and fixing household water leaks, and winterizing the home to prevent burst pipes during freezing temperatures.

Storm Drain Awareness

New in FY19, the Stormwater Education Committee prioritized storm drain education. The new campaign raises public awareness about storm drains: what they are, where they go, and what’s safe to put down them. The campaign features the “only rain down the drain” theme and highlights many other best management practices like reducing fertilizer use, proper yard debris disposal, and scooping the poop.

Paid Media. New creative was developed using a “man on the street” interview in which local residents were asked to identify a storm drain and describe what types of materials could safely go down the drain. A week-long media campaign ran from June 17-23. The campaign included digital display and retargeting ads, native content ads on WTKR.com, social media, and advanced TV. Throughout the year, specific stormwater messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Subcommittee maintains a comprehensive library of brochures and rack cards and distributes outreach materials such as stormwater message pens and mood pencils. Select localities also purchased storm drain medallions to support local storm drain marking programs.

Public Relations. Public relations supported this focal area through news releases, print articles, interviews with local radio and TV shows, Write as Rain messages, and features in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach included sharing news about local water quality concerns, promoting events/workshops, and promoting best management practices. Social media was also an important part of promotions in FY19. Native plants, soil test kits, and goodie bags were given away as prizes for various contests involving stormwater management.

Chesapeake Bay Restoration Fund Grant (CBRF). The Subcommittee hosted four rain barrel workshops using funds from the CBRF grant. The workshops were held in Suffolk, Virginia Beach, Newport News, and James City County. Participants paid a modest \$20 registration fee and received stormwater management information, a rain barrel, and a selection of native plants to take home. The workshops were very popular and had over 60 participants with 60 rain barrels and 83 native plants distributed.



Pet Waste Disposal

The Stormwater Education Subcommittee continued to raise awareness about the importance of scooping the poop and the harmful impacts of bacteria-laden waste on local water quality.

Paid Media. The Subcommittee ran a two-week media campaign from June 3-16. The campaign used new creative featuring a “poo-em” about cleaning up after your pet and the harmful impacts of pet waste on local water quality. The campaign included radio, digital display ads, native content ads, social media, and advanced TV.

Outreach Materials. The Committee purchased 5,000 dog waste bag holders and 2,500 hand sanitizers for distribution. The message pens also contain scoop the poop information.

New Pet Waste Stations in FY19	
Chesapeake	9
Hampton	6
Isle of Wight	2
James City	8
Newport News	12
Norfolk	5
Poquoson	1
Portsmouth	2
Smithfield	3
Suffolk	7
Virginia Beach	7
York	2
	64



Public Relations. The pet waste message was promoted in news releases, print articles, interviews with local radio and TV shows, and features in the askHRgreen.org newsletter.

Social Media. Social media is an important tool for sharing the “scoop the poop” message, and we utilized Facebook, Twitter, and Instagram in our outreach efforts.

Pet Waste Station Grant Program. The askHRgreen Pet Waste Station Grant Program, which began in 2013, continued to thrive in FY19. Geared toward neighborhood associations, community groups, and property management companies, the regional program gives citizens an opportunity to receive a free pet waste station to install and maintain in their neighborhoods. Approved applicants are responsible for installing the station, emptying the trash regularly, and replacing the bags as needed. The neighborhood is also tasked with sharing information with residents about the negative impact of pet waste on local water quality. Since the launch of the program, 349 pet waste stations have been awarded and installed across the region. Of those, 64 were awarded and installed during FY19.

Total Pet Waste Stations Awarded FY14 to FY19	
Chesapeake	39
Franklin/Southampton	8
Gloucester	5
Hampton	31
Isle of Wight	6
James City	30
Newport News	72
Norfolk	13
Poquoson	5
Portsmouth	18
Smithfield	8
Suffolk	33
Virginia Beach	57
Williamsburg	5
York	19
	349

Lawn Care & Fertilizer

Paid Media. Throughout the year, lawn care, native plants, fertilizing, and soil testing topics were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Stormwater Education Subcommittee distributes many brochures related to lawn care best management practices, fertilizing and how to properly take a soil test. Soil test kits are also distributed to the public at community events. The Subcommittee additionally targeted lawn care companies by mailing a letters and educational resources to lawn care companies licensed in the following cities: Chesapeake (51), Hampton (40), Newport News (257), Norfolk (208), Portsmouth (188), Suffolk (211), and Virginia Beach (397). In total, 1,352 letters were mailed to landscape and lawn care companies in Hampton Roads to help companies better understand how they can comply with local stormwater requirements and prevent pollution from illicit discharge.



Public Relations. Fertilizer and lawn care best management practices are commonly included in various public relations strategies throughout the year including news releases, print articles, interviews with local TV and radio stations, and features in the askHRgreen.org newsletter. In June 2019, askHRgreen.org partnered with Anderson’s Garden Center to discuss native plants and host a native plant giveaway. Three native rose mallow hibiscuses were donated by Anderson’s Garden Center and raffled off to participants through a Facebook contest.

Social Media. Social media is an important tool for sharing all of our eco-friendly messages, including fertilizing and lawn care tips, and we utilized Facebook, Twitter, and Instagram in our outreach efforts. As mentioned above, social media was also an important part of promotions in FY19. Native plants, soil test kits, and goodie bags were all given away as prizes for various contests involving stormwater management.

2018-2019 Media Campaigns & Results

NOVEMBER 19 - DECEMBER 24 “Grease Grinch”
Radio, digital display ads, native content ads, social media, video pre-roll, advanced TV

Impressions: 1,535,051
Video Views: 74,631
Clicks/Actions: 3,271

BUDGET: \$18,636 | VALUE: \$29,501 | ROI: 1.58:1

JANUARY 28 - FEBRUARY 10 “Choose to Refuse: Waste Reduction”
Radio, digital display ads, native content ads, social media, video pre-roll

Impressions: 1,012,319
Video Views: 26,483
Clicks/Actions: 1,629

BUDGET: \$14,635 | VALUE: \$25,374 | ROI: 1.73:1

MARCH 18 - 24 “Fixing Household Water Leaks”
Radio, digital display ads, native content ads, social media, video pre-roll, advanced TV

Impressions: 1,272,672
Video Views: 53,691
Clicks/Actions: 833

BUDGET: \$14,775 | VALUE: \$21,240 | ROI: 1.44:1

MAY 5 - 11 “The Value of Tap Water”
Radio, digital display ads, native content ads, social media, video pre-roll, advanced TV

Impressions: 882,815
Video Views: 62,591
Clicks/Actions: 1,389

BUDGET: \$14,775 | VALUE: \$24,556 | ROI: 1.66:1

JUNE 17 - 23 “Storm Drains - Only Rain Down the Drain”
Digital display ads, native content ads, social media, video pre-roll

Impressions: 174,506
Video Views: 38,065
Clicks/Actions: 687

BUDGET: \$5,425 | VALUE: \$5,828 | ROI: 1.07:1

OCTOBER 8-14 “Imagine a Day Without Water”
Radio, digital display ads, native content ads, social media, advanced TV

Impressions: 1,277,598
Video Views: 29,973
Clicks/Actions: 2,038

BUDGET: \$15,185 | VALUE: \$26,012 | ROI: 1.71:1

MARCH 4 - 10 “What Not to Flush”
Radio, digital display ads, native content ads, social media, video pre-roll, advanced TV

Impressions: 966,787
Video Views: 57,627
Clicks/Actions: 473

BUDGET: \$14,275 | VALUE: \$21,600 | ROI: 1.51:1

APRIL 1 - 7 “Team Up 2 Clean Up: Great American Cleanup”
Radio, social media, billboards

Impressions: 1,106,107
Clicks/Actions: 1,034

BUDGET: \$8,100 | VALUE: \$46,595 | ROI: 5.75:1

JUNE 3 - 16 “Pet Waste - Scoop the Poop”
Radio, digital display ads, native content ads, social media, video pre-roll

Impressions: 827,316
Video Views: 34,943
Clicks/Actions: 1,782

BUDGET: \$14,278 | VALUE: \$21,013 | ROI: 1.47:1

2018-2019 askHRgreen.org Public Relations Value					
Date	Media Outlet	Topic	Length	Circ./ Imp	PR Value
Tuesday, July 31, 2018	Inside Business	Hampton Roads companies pledge to go green with Bay Star Business	16 column inches	9,000	\$3,500.00
Sept. 28, 2018	WCTV-TV Chesapeake	Write as Rain interview with Katie Cullipher and Megan Hale	1:05 minutes	1,500	\$600.00
Sept. 30, 2018	WVEC-TV Coastal Connections	Write as Rain interview with Katie Cullipher and Megan Hale	5:00 minutes	3,600	\$1,125.00
	WCTV-TV Chesapeake	Fall tips interview with Katie Cullipher	1:00	1,500	\$600.00
Oct. 5, 2018	Newport News Now Newsletter	Sidewalk messaging campaign Write as Rain	N/A	1,500	\$600.00
Oct. 5, 2018	Southside Daily News	If you find these white message one rainy day, you might win some prizes	10 column inches	3,600	\$900.00
Oct. 5, 2018	Hampton-Newport News Daily	If you find these white message one rainy day, you might win some prizes	10 column inches	3,600	\$900.00
Oct. 9, 2018	Williamsburg-Yorktown Daily	These companies are going to help you imagine a day without water	16 column inches	300	\$900.00
Oct. 9, 2018	Southside Daily News	These companies are going to help you imagine a day without water	16 column inches	3,600	\$900.00
Oct. 9, 2018	Hampton Newport News Daily	Can you imagine a day without water?	16 column inches	3,600	\$900.00
Oct. 9, 2018	The Virginia Gazette	Local businesses participate in A Day Without Water	10 column inches	12,300	\$825.00
Nov. 2, 2018	Beacon	Environmental group hopes invisible style messages will do the trick	1/2 page	41,598	\$6,525.00
Nov. 2, 2018	Bridges	Environmental group hopes invisible style messages will do the trick	1/2 page	26,186	\$2,745.00
Nov. 2, 2018	Clipper	Environmental group hopes invisible style messages will do the trick	1/2 page	31,967	\$3,300.00
Nov. 4, 2018	Suffolk News-Herald	No wishful thinking when it comes to recycling	20 column inches	10,431	\$1,965.00
Nov. 11, 2018	The Virginian-Pilot	No wishful thinking when it comes to recycling	20 column inches	120,771	\$10,230.00
Nov. 14, 2018	Hampton Newport News Daily	This Hampton Roads organization wants residents to know how to recycle properly	N/A	3,600	\$900.00
Dec. 2, 2018	Southside Daily	Heard about FOG? It can really mess up your local waterways	14.5 column inches	3,600	\$900.00
Dec. 26, 2018	WTKR-TV Online	Want to recycle your Christmas tree?	93 words	5,000	\$225.00
Mar. 29, 2019	WCTV-TV Chesapeake	Great American Cleanup "A Closer Look" interview with Katie Cullipher	7.30 minutes	1,500	\$600.00
Apr. 15, 2019	WVEC-TV	Hampton Roads gets ready for GAC "13news@noon" interview with Mike Baum	3:05	34,000	\$2,250.00
Apr. 17, 2019	Suffolk News-Herald	Skip the straws, save the turtles	21.5 column inches	10,431	\$2,115.00
Apr. 22, 2019	Southside Daily News	Celebrate Earth Day by going strawless at these Hampton Roads restaurants	15.6 column inches	3,600	\$900.00
Apr. 22, 2019	WTKR-TV	Straw-free Earth Day -- 3 live reports airing at 5 am, 6 am,, 7 am	3 @ 2:30 minutes	109,000	\$6,225.00
May-June issue 2019	Coastal Virginia Magazine	Great American Cleanup	5 column inches	35,000	\$2,220.00
Friday, May 03, 2019	WAVY-TV 10	Volunteers in Hampton Roadss Taking Part in Great American Cleanup	2:10 minutes	52,000	\$2,025.00
Wednesday, June 26, 2019	WTKR-TV Coast Live	Replacing your lawn with native plants interview with Katie Cullipher, Michelle Williams	4:37 minutes	36,000	\$2,025.00
Saturday, June 29, 2019	TheVirginian-Pilot Home + Living section	Condo pet policies are a hot topic -- mention of askHRgreen.org Scoop the Poop	93 words	120,771	\$675.00
				689,555	\$57,575

PUBLIC RELATIONS RESULTS

Total circulation or audience

689,555

Total articles and interviews

28

Total budget

\$5,280

Total publicity value

\$57,575

Return on Investment (ROI)

10.9:1

COMBINED MEDIA RESULTS

PAID ADVERTISING WEEKS 52 consecutive

TOTAL MEDIA IMPRESSIONS 11,055,464

TOTAL VIDEO VIEWS 378,004

TOTAL CLICKS 25,631

TOTAL PROMOTIONAL CAMPAIGN BUDGET \$157,257

TOTAL MEDIA EXPOSURE VALUE \$311,188

COST PER THOUSAND IMPRESSIONS \$14.22

RETURN ON INVESTMENT (ROI) 1.98:1

 askhrgreen.org

Published by Rebekah Jones Easter

11 June 27

We have lots of environmental tips and we hope you follow them all. But we also want you to know that everyone has bad habits. You just have to do SOMETHING to reduce your impacts and keep moving forward towards sustainability.

More on the Green Living blog:
<http://askhrgreen.org/old-habits/>... See More



 Get More Likes, Comments and Shares

Boost this post for \$15 to reach up to 3,000 people

2,667

People Reached

237

Engagements

Boost Post

 askhrgreen.org

Published by Rebekah Jones Easter

11 December 27, 2018 at 1:45 PM

A local example of why it's important to keep our sewer lines free of grease, food scraps, wipes, and anything other than toilet paper and your "personal contribution." Sewer overflows are not only gross. They have a direct impact on our local economy. [#sewerlinegrease](#) [#sewerlinepipes](#)



 [PILOTONLINE.COM](#)

Sewage spill temporarily halts shellfish harvesting in Newport News

4,578

People Reached

452

Engagements

Boost Post

 askhrgreen.org

Published by Laker

11 March 8

Tired of winter? Are you over being cold? Show us with a meme or GIF below and you could be one of the fifty we pick to WIN an askHRgreen.org goodee bag that includes a SOIL TEST KIT and other cool stuff!

While we're still in the "coming in like a lion" part of March, we can prepare for the "going out like a lamb" end of the month. How do you feel about prepping your lawn and garden for spring? Love it like sunshine and butterflies? Hate it like rose thorns and poison ivy? So... See More



 [askHRgreen.org](#)

Only Rain Down the Storm Drain!


21,888

People Reached

2,945

Engagements


Boost Post


 askhrgreen.org

Published by Rebekah Jones Easter

11 September 11, 2018

Searching for bottled water? Don't overlook your tap! Convert any container with a lid into "bottled" water to use if you lose water services during Hurricane Florence. Milk jugs and soda bottles are perfect. Stay safe. Hampton Roads! [#staybale](#) [#hurricaneflorence](#) [#stormmode](#)



 Get More Likes, Comments and Shares

Boost this post for \$15 to reach up to 3,000 people


2,884

People Reached

371

Engagements

Boost Post


 askhrgreen.org


Published by Laker

11 May 31

Beneath your feet, there is a vast infrastructure — more than 6,500 miles of water distribution pipeline and 5,000 miles of sanitary sewer lines throughout Hampton Roads. These systems (drinking water, sanitary sewer and stormwater), and the people who maintain them, work silently and reliably to keep the water flowing.

Out of sight, out of mind, right? Not if we have anything to do with it! Let's not take these critical pipelines and their proper maintenance for granted. Wh... See More



 Get More Likes, Comments and Shares

Boost this post for \$15 to reach up to 3,000 people

2,825

People Reached

141

Engagements

Boost Post

 askhrgreen.org


Published by askHRgreen

11 November 9, 2018

Leaves are raining down along with rain drops. Remember, only rain can safely go down the storm drain!

Keeping leaves and other trash out of the drain helps prevent street flooding and local water pollution. [#OnlyRainDownTheDrain](#) [#TGIF](#) City of Norfolk Government Keep Norfolk Beautiful



 [askHRgreen.org](#)

Only Rain Down the Storm Drain!


2,730

People Reached

82

Engagements

Boost Again


 askhrgreen.org


Published by Rebekah Jones Easter

11 May 17

Personal wipes, public problem.

Miami-Dade Water & Sewer Department can attribute up to \$3.5 million in operating costs to the management of trash flushed down the toilet. Some pump stations need to be cleaned up 3x more often than 18 years ago [#TheMoreYouKnow](#) [#actfriday](#) [#NoWipesInThePipes](#) [#ToiletNotTrashCans](#) [#WipesClogPipes](#) [#HRSD](#)



 Get More Likes, Comments and Shares

Boost this post for \$15 to reach up to 3,000 people

4,075

People Reached

453

Engagements

Boost Post

 askhrgreen.org

Published by Rebekah Jones Easter

11 May 25

More on the viral video from this weekend showing the mess left behind after the Floatopia event in Chic Beach. Shout out to City of Virginia Beach Waste Management Division for getting this mess cleaned up ASAP! [#TeamUp2CleanUp](#) [#TrashFreeWaters](#) [#LeaveOnlyFootprints](#)



 Get More Likes, Comments and Shares

Boost this post for \$15 to reach up to 3,000 people


4,913

People Reached

987

Engagements

Boost Post

 askhrgreen.org


Published by askHRgreen


11 January 31

Hampton Roads is slowly being buried by [#singleuseplastic](#) (those plastic items we encounter every day that are meant to be used just once before being thrown away 🗑️🗑️). What can you do?

🚫 CHOOSE TO REFUSE! 🚫

Say "No, thank you" single-use plastics such as plastic bags, straws, and utensils. You can carry reusable shopping bags for all your retail shopping needs. Bring your own glass or metal water bottle instead of buying bottled drinks. And pack lunches using reusable containers... See More



 [ASKHRGREEN.ORG](#)

Choose To Refuse Single-Use Plastic!

88,126

People Reached

1,706

Engagements

Boost Post

Terms

added value
Earned but unpaid advertising value.

ad group
In Search Engine Marketing (SEM), an ad group contains one or more ads which target a shared set of keywords.

average position
A ranking system that determines where your search engine marketing ad will display on a web search results page (i.e. top of page v. bottom of page).

bounce rate
The percentage of visitors who enter the site and “bounce” (leave the site) rather than continue viewing other pages within the same site.

click through rate (CTR)
A way of measuring online advertising. The CTR of an advertisement is defined as the number of clicks on an ad divided by its impressions, expressed as a percentage.

cost-per-click (CPC)
The cost associated with a person clicking on a display ad in search engine marketing.

exposure value
The combination of advertising cost, added value, and public relations value.

frequency
The number of times an individual (among the target audience) is exposed to the message.

impressions
The number of times an advertisement or public relations placement can be seen or heard by an audience.

public relations value
The equivalent advertising cost of a public relations article, interview, internet placement, etc. times three. Because a public relations placement has a higher value with an audience than advertising, it is assigned a higher value.

reach
The number or percentage of people within the target audience who are exposed to an advertising message at least once over a specific period of time.

search engine marketing (SEM)
The process of attracting traffic to a website from search engine results pages on a pay-per-click basis.

search engine marketing (SEO)
The process of improving the quality of a website so that it appears higher in natural (“organic”) search results.

unique visitors (users)
The number of people who visit a website within a specific period of time. If they visit more than one time within the period, their initial visit as well as their subsequent visits are counted as sessions. A user may have one session or multiple sessions.

Appendix A

Search Engine & Online Marketing Results July 2018 - Jun 2019

Campaign Overview: The below report represents the traffic to AskHRGreen.org from the months of July 2018 – June 2019 from the Pay Per Click campaign managed by Tribune Digital. In the span of your last fiscal year, Tribune has accounted for 11,087 clicks to AskHRGreen.org from serving 210,695 impressions for a click thru rate of 5.26%. That means that for every 20 ads that appear, it resulted in one click to the website.

Here is how the campaign looks by month:

July 2018:

- For the month of July, we delivered a total of **18,091 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:
- We drove a total of **920 clicks** to your website, which is **23%** of your total site traffic, only behind google organic searches.
 - 9 of your top 25 pages visited in that same time period were a direct result of wtkr’s efforts.
 - Knowing that recycling is one of your biggest initiatives, 6 of the top 7 keyword groups for July were recycling related, generating **606 clicks** to the site, accounting for **66% of all site traffic** from the search campaign (920 clicks).
 - Top five keyword groups for July were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.TMDL
 - 4.Battery Disposal
 - 5.Great American Cleanup
 - 6.Medication Disposal
 - 7.Recycling At Home
 - 8.Native Plants
 - 9.Tap Water
 10. askHRGreen General

August 2018:

- For the month of August, we delivered a total of **19,586 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:
- We drove a total of **933 clicks** to your website, which is **24%** of your total site traffic, only behind google organic searches.
 - 11 of your top 25 pages visited in that same time period were a direct result of wtkr’s efforts.
 - Knowing that recycling is one of your biggest initiatives, 5 of the top 6 keyword groups for August were recycling related, generating **579 clicks** to the site, accounting for **62% of all site traffic** from the search campaign (933 clicks).
 - Top five keyword groups for August were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.Recycling At Home
 - 4.TMDL
 - 5.Battery Disposal
 - 6.Great American Cleanup
 - 7.Native Plants
 - 8.askHRGreen General
 - 9.Medication Disposal
 10. Plastic Bag Recycling

September 2018:

For the month of September, we delivered a total of **15,484 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **764 clicks** to your website, which is **20%** of your total site traffic, only behind google organic searches and direct traffic.
- 8 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 4 of the top 5 keyword groups for September were recycling related, generating **436 clicks** to the site, accounting for **57% of all site traffic** from the search campaign (764 clicks).
- Top five keyword groups for September were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.TMDL
 - 4.Recycling At Home
 - 5.Battery Disposal
 - 6.askHRGreen General
 - 7.Great American Cleanup
 - 8.Native Plants
 - 9.Tap Water
 10. Medication Disposal

October 2018:

For the month of October, we delivered a total of **15,463 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **875 clicks** to your website, which is **17%** of your total site traffic, only behind google organic searches and direct traffic.
- 8 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 3 of the top 5 keyword groups for October were recycling related, generating **321 clicks** to the site, accounting for **37% of all site traffic** from the search campaign (875 clicks).
- Top five keyword groups for October were:
 - 1.Electronics Disposal
 - 2.TMDL
 - 3.Recycling At Home
 - 4.Reduce Reuse Recycle
 - 5.Native Plants
 - 6.Medication Disposal
 - 7.Great American Cleanup
 - 8.Battery Disposal
 - 9.Lawn Care
 10. Tap Water

November 2018:

For the month of November, we delivered a total of **17,312 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **848 clicks** to your website, which is **17%** of your total site traffic, only behind google organic searches and direct traffic.
- 8 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 4 of the top 5 keyword groups for November were recycling related, generating **462 clicks** to the site, accounting for **54% of all site traffic** from the search campaign (848 clicks).
- Top five keyword groups for November were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.TMDL
 - 4.Recycling At Home
 - 5.Battery Disposal
 - 6.America Recycles Day
 - 7.askHRGreen General
 - 8.Great American Cleanup
 - 9.Native Plants
 10. Tap Water

December 2018:

For the month of December, we delivered a total of **15,457 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **793 clicks** to your website, which is **14%** of your total site traffic, only behind google organic searches, direct traffic and our Facebook campaign.
- 7 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 4 of the top 5 keyword groups for December were recycling related, generating **428 clicks** to the site, accounting for **54% of all site traffic** from the search campaign (793 clicks).
- Top five keyword groups for December were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.TMDL
 - 4.Recycling At Home
 - 5.Battery Disposal
 - 6.Native Plants
 - 7.Tap Water
 - 8.Plastic Bag Recycling
 - 9.American Recycles Day
 10. Great American Cleanup

January 2019:

For the month of January, we delivered a total of **16,956 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **944 clicks** to your website, which is **19%** of your total site traffic, only behind google organic searches and direct traffic.
- 7 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 4 of the top 5 keyword groups for January were recycling related, generating **491 clicks** to the site, accounting for **52% of all site traffic** from the search campaign (944 clicks).
- Top five keyword groups for January were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.TMDL
 - 4.Recycling At Home
 - 5.Battery Disposal
 - 6.Native Plants
 - 7.Tap Water
 - 8.Plastic Bag Recycling
 - 9.America Recycles Day
 10. Great American Cleanup

February 2019:

For the month of February, we delivered a total of **16,931 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **902 clicks** to your website, which is **21%** of your total site traffic, only behind google organic searches and direct traffic.
- 9 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 4 of the top 5 keyword groups for February were recycling related, generating **433 clicks** to the site, accounting for **48% of all site traffic** from the search campaign (902 clicks).
- Top five keyword groups for February were:
 - 1.Electronics Disposal
 - 2.Reduce Reuse Recycle
 - 3.TMDL
 - 4.Recycling At Home
 - 5.America Recycles Day
 - 6.Native Plants
 - 7.Medication Disposal
 - 8.askHRGreen General
 - 9.Battery Disposal
 10. Great American Cleanup

March 2019:

For the month of March, we delivered a total of **17,931 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **962 clicks** to your website, which is **17%** of your total site traffic, only behind google organic searches and direct traffic.
- 7 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 3 of the top 5 keyword groups for February were recycling related, generating **322 clicks** to the site, accounting for **33% of all site traffic** from the search campaign (962 clicks).
- Top five keyword groups for March were:
 1. Electronics Disposal
 2. TMDL
 3. Reduce Reuse Recycle
 4. Native Plants
 5. Battery Disposal
 6. Great American Cleanup
 7. Medication Disposal
 8. Recycling at Home
 9. American Recycles Day
 10. AskHRGreen General

April 2019:

For the month of April, we delivered a total of **20,219 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **1,099 clicks** to your website, which is **17%** of your total site traffic, only behind google organic searches and direct traffic.
- 8 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 5 of the top 7 keyword groups for April were recycling related, generating **537 clicks** to the site, accounting for **49% of all site traffic** from the search campaign (1,099 clicks).
- Top five keyword groups for April were:
 1. Electronics Disposal
 2. Native Plants
 3. Reduce Reuse Recycle
 4. Recycling At Home
 5. TMDL
 6. Battery Disposal
 7. Medication Disposal
 8. askHRGreen General
 9. Great American Cleanup
 10. Rain Barrels

May 2019:

For the month of May, we delivered a total of **19,481 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **976 clicks** to your website, which is **20%** of your total site traffic, only behind google organic searches and direct traffic.
- 9 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 5 of the top 7 keyword groups for May were recycling related, generating **537 clicks** to the site, accounting for **55% of all site traffic** from the search campaign (976 clicks).
- Top five keyword groups for May were:
 1. TMDL
 2. Electronics Disposal
 3. Native Plants
 4. Reduce Reuse Recycle
 5. Great American Cleanup
 6. Battery Disposal
 7. Recycling at Home
 8. askHRGreen General
 9. Rain Barrels
 10. Tap Water

June 2019:

For the month of June, we delivered a total of **17,784 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **1,107 clicks** to your website, which is **18%** of your total site traffic, only behind google organic searches and direct traffic.
- 11 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts.
- Knowing that recycling is one of your biggest initiatives, 4 of the top 6 keyword groups for June were recycling related, generating **546 clicks** to the site, accounting for **49% of all site traffic** from the search campaign (1,107 clicks).
- Top five keyword groups for June were:
 1. Electronics Disposal
 2. Reduce Reuse Recycle
 3. Recycling At Home
 4. TMDL
 5. Native Plants
 6. Battery Disposal
 7. Great American Cleanup
 8. askHRGreen General
 9. Medication Disposal
 10. Plastic Bag Recycling

Reporting Year 2018-2019 Regional Stormwater Workgroup Attendance

	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup		
Meeting Dates	7/18/2018	8/15/2018	9/19/2018	10/17/2018	11/14/2018	12/12/2018	2/20/2019	3/20/2019	4/10/2019	5/15/2019	6/19/2019	# Meetings	% Attended
Phase II Localities:												11	
James City County		1	1	1	1	1	1		1		1	8	67%
Poquoson	1	1		1	1	1		1	1	1	1	9	75%
Suffolk	1	1	1	1	1	1	1	1		1	1	10	83%
Williamsburg		1			1	1	1	1	1	1	1	8	67%
York Co.	1	1	1	1		1	1	1		1	1	9	75%

Note - The January 2019 Regional Stormwater Workgroup meeting was cancelled.

Reporting Year 2018-2019 Stormwater Education Subcommittee Workgroup Attendance:

	July	August	September	October	November	December	January	February	March	April	May	June
Chesapeake	Mary Eason	Mary Eason		Mary Eason			Mary Eason	Mary Eason	Mary Eason			
Gloucester												
Hampton		Cris Ausink	Cris Ausink	Cris Ausink	Cris Ausink		Cris Ausink	Cris Ausink		Cris Ausink		Cris Ausink
Isle of Wight	Dave Kuzma	Steve Jackson	Kim Hummel	Dave Kuzma	Steve Jackson		Dave Kuzma	Dave Kuzma	Dave Kuzma Kim Hummel	Dave Kuzma Kim Hummel	Kim Hummel	Dave Kuzma
James City County			Trevor Long	Trevor Long			Trevor Long		Trevor Long	Trevor Long		Trevor Long
Newport News		Allison Watts	Joe Grist	Allison Watts	Allison Watts		Allison Watts	Allison Watts	Allison Watts	Allison Watts Kim Moshier	Kim Moshier	Allison Watts
Norfolk	Michelle Williams	Michelle Williams	Michelle Williams	Michelle Williams			Michelle Williams	Michelle Williams			Michelle Williams	Michelle Williams
Poquoson	Garrett Feagans			Garrett Feagans	Garrett Feagans		Garrett Feagans	Garrett Feagans	Garrett Feagans	Garrett Feagans		Garrett Feagans
Portsmouth		Audrey Doan	Audrey Doan				Audrey Doan Barrett Belvin		Audrey Doan	Audrey Doan	Barrett Belvin, PO Dennis Brandon, PO	Audrey Doan
Smithfield				Wayne Griffin								
Suffolk	Jamie Durden Heather Baggett	Jamie Durden Heather Baggett	Jamie Durden	Jamie Durden Heather Baggett	Jamie Durden		Jamie Durden Heather Baggett	Jamie Durden	Heather Baggett	Jamie Durden	Heather Baggett	Jamie Durden
Virginia Beach	Tara Copeland	Tara Copeland	Tara Copeland				Tara Copeland	Tara Copeland	Tara Copeland	Tara Copeland Taylor Jones	Tara Copeland	Tara Copeland
Williamsburg				Tammy Rojek					Tammy Rojek	Tammy Rojek	Tammy Rojek	Tammy Rojek
York	Ivan Shelton	Ivan Shelton			Ivan Shelton		Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton	
						Cancelled						

REGIONAL COOPERATION IN STORMWATER MANAGEMENT

FISCAL YEAR 2018-2019

A STATUS REPORT

This report was included in the HRPDC Work Program for FY 2018-2019, approved by the Commission at its Executive Committee Meeting on May 17, 2018

**Prepared by the staff of the
Hampton Roads Planning District Commission
in cooperation with the
Regional Stormwater Workgroup**

September 2019

REPORT DOCUMENTATION

TITLE

**Regional Cooperation in Stormwater
Management Fiscal Year 2018-2019:
A Status Report**

REPORT DATE

September 2019

GRANT/SPONSORING AGENCY

LOCAL FUNDS

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ABSTRACT

This document describes cooperative activities related to stormwater management undertaken by Hampton Roads local governments during Fiscal Year 2018-2019. The activities described include the regional information exchange process, public information and education, legislative and regulatory issues, cooperative regional studies and related programs. This document is used by the region's eleven localities with stormwater permits to assist them in meeting their permit requirements.

ACKNOWLEDGMENTS

The Hampton Roads Planning District Commission, in cooperation with the Regional Stormwater Workgroup, prepared this report.

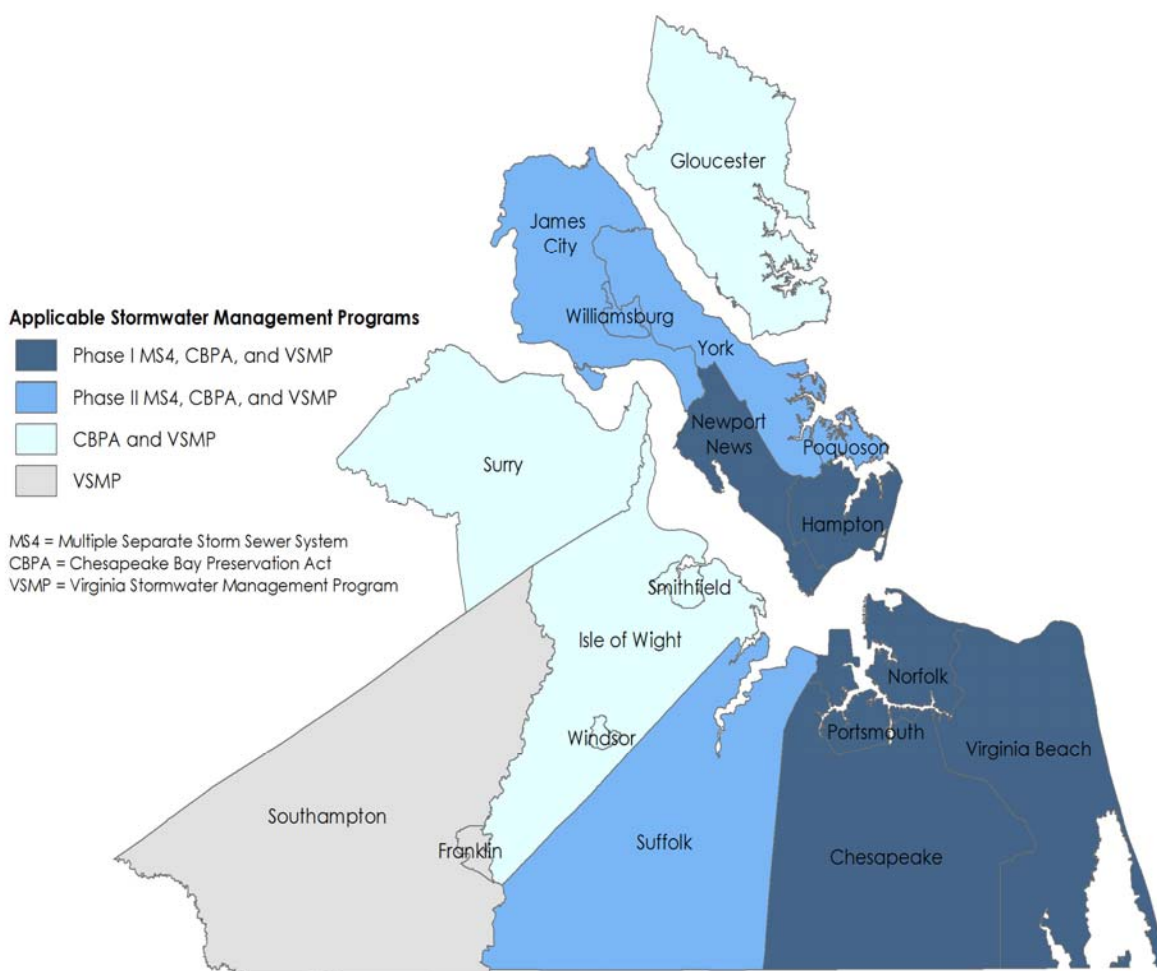
Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2018-2019, approved by the Commission at its Executive Committee Meeting of May 17, 2018.

The seventeen member local governments through the HRPDC Regional Stormwater Management Program provided funding.

INTRODUCTION

Working through the Hampton Roads Planning District Commission (HRPDC), the region's seventeen member cities, counties, and town (Figure 1) cooperated on a variety of stormwater management activities during Fiscal Year 2018-2019. This cooperative effort has been underway as a formal adjunct to the Virginia Pollutant Discharge Elimination System Permits (VPDES) for Municipal Separate Storm Sewer Systems (MS4) held by the Cities of Chesapeake, Hampton, Newport News, Norfolk, Portsmouth and Virginia Beach since Fiscal Year 1995-1996. The Cities of Suffolk, Poquoson, Williamsburg, and the Counties of James City County, Isle of Wight, and York joined in 2002 to coordinate Phase II MS4 permit applications. Cooperative activities documented in this report represent a continuation of an ongoing effort, which has involved concerted activity since 1992.

As of April 19, 2016, the Phase II MS4 permit for Isle of Wight County was terminated by the Department of Environmental Quality (DEQ). It was determined that the County does not own or operate a MS4 within the Census Urbanized Area.



REGIONAL STORMWATER MANAGEMENT PROGRAM GOALS

The HRPDC and local stormwater staffs undertook a comprehensive effort in FY 1998-1999, called the Regional Loading Study. The project included developing a set of regional stormwater management goals to guide the regional program. The goals were presented to and adopted by the HRPDC at its Executive Committee Meeting in September 1999. They were reaffirmed in the January 2003 approval of the “Memorandum of Agreement (MOA) Establishing the Hampton Roads Regional Stormwater Management Program” and the renewal of the MOA in 2008, 2013, and 2018. The adopted Regional Stormwater Management Program Goals, which guide the regional program, are:

- Manage stormwater quantity and quality to the maximum extent practicable (MEP).
 - Implement best management practices (BMPs) and retrofit flood control projects to provide water quality benefits.
 - Support site planning and plan review activities.
 - Manage pesticide, herbicide and fertilizer applications.
- Implement public information activities to increase citizen awareness and support for the program.
- Meet the following needs of citizens:
 - Address flooding and drainage problems.
 - Maintain the stormwater infrastructure.
 - Protect waterways.
 - Provide the appropriate funding for the program.
- Implement cost-effective and flexible program components.
- Satisfy VPDES stormwater permit requirements.
 - Enhance erosion and sedimentation control.
 - Manage illicit discharges, spill response, and remediation.

THE REGIONAL PROGRAM

The Regional Stormwater Management Program initially focused on activities that supported the permit compliance efforts of the six communities with Phase I VPDES MS4 Permits, technical assistance to the region’s non-permitted communities and regional education and training to support all of the communities. The program has expanded to include the needs of the five communities with Phase II VPDES MS4 permits and the development of locally administered Stormwater Programs which were required starting July 1, 2014.

Phase I Localities

The current Phase I MS4 permits became effective on July 1, 2016. FY 2018-2019 represents the third year of the five-year permit cycle. In addition to implementing their Chesapeake Bay TMDL Action Plans, this year, the Phase I permittees were focused on the following: 1) developing and implementing Stormwater Pollution Prevention Plans (SWPPPs) for their high priority municipal facilities and 2) developing written protocols to minimize pollutant discharges from permittee-maintained roads, streets, and parking lots. The SWPPPs and the written protocols were required to be completed by July 1, 2019.

Phase II Localities

The Phase II General Permit was reissued on November 1, 2018. FY 2018-2019 represents the first year in the permit cycle. The permittees continue to implement their Chesapeake Bay Action Plans, which were submitted in FY 2014-2015. By November 1, 2019, the Phase II permittees will submit updated Chesapeake Bay TMDL Action Plans that will reflect 40% of the required pollutant reductions. The permittees were required to update their Program Plans in accordance with the requirements of the new General Permit and to post the revised plan on their dedicated MS4 webpage.

Both the Phase I and Phase II Localities continue to implement their local Stormwater Programs, train staff on stormwater issues, and meet education and outreach requirements. HRPDC staff provided information and coordinated trainings to assist with these efforts. More detailed descriptions are available in the *Training* section of this report. The regional environmental education organization, askHRgreen.org, conducted regional stormwater outreach campaigns for pet waste pickup, proper lawn maintenance, and reduction of fats, oils, and grease.

INFORMATION EXCHANGE

The cornerstone of the Regional Stormwater Program continues to be the exchange of information. This is accomplished through regular monthly meetings to address topics of regional importance, as well as crosscutting issues that affect local stormwater, planning, public works and public utilities staff. In addition, various agencies and organizations utilize this regional forum to engage and inform local governments, as well as to gather feedback.

Monthly Meetings

The seventeen communities participate in the HRPDC Regional Stormwater Program and their staffs meet twice a month. The Stormwater Workgroup meetings provide an opportunity for local stormwater managers to exchange information about successful program activities, utility structures and policies, and technical challenges. The HRPDC Regional Environmental Committee meetings include local stormwater and planning staff plus cooperating agencies such as the Department of Conservation and Recreation (DCR), the DEQ, the Virginia Department of Transportation (VDOT), the Hampton Roads Sanitation District (HRSD), the Port of Virginia, and local nonprofit organizations.

State and Federal Agency Program Briefings

Representatives of state and federal agencies frequently brief the Committee on developing issues, regulatory guidance and technical programs. During the year, the Committee was briefed by representatives of the DCR on the Virginia Outdoors Plan, the Port of Virginia on their sustainability initiatives, and Old Dominion University on micro plastics, pollution from tidal waters, and offshore wind development. The Army Corps of Engineers presented an overview of their 3 x 3 x 3 feasibility studies.

Regional Chesapeake Bay Preservation Act (CBPA) Workgroup

Fifteen of the seventeen member localities continue to implement CBPA programs, many of them since 1990. DEQ has completed compliance reviews of the region's local programs every five years since they were initiated. Each local program is set up differently. For example, some localities use Planning staff to administer the program, while others dedicate Engineering staff.

HRPDC staff contacted local staff and determined that reconvening a regional workgroup of local CBPA staff would be useful. Meetings were held in January and April 2019. The Workgroup has discussed legislative issues, ideas for CBPA public outreach, and lessons learned. Moving forward, the Workgroup would like to improve communications with DEQ and particularly with the Local Government Assistance Program Manager, once the position is filled. The next meeting of the Workgroup is scheduled for July 29, 2019 and will focus on potential changes to the CBPA regulations and sharing best practices among localities.

Regional Water Quality Technical Workgroup

In FY 2015, the HRPDC established the Regional Technical Environmental Workgroup in order to provide a forum for local government staff from various departments and consultants to discuss technical details of the implementation of the Chesapeake Bay TMDL as well as local TMDLs. In FY 2016, the name of the Workgroup was changed to the Regional Water Quality Technical Workgroup to more accurately reflect the topics of discussion.

The objectives of the Workgroup are to discuss technical aspects of restoration projects, discuss research and development of alternative BMPs, help set regional priorities for approval of BMPs for the Bay TMDL, and develop research priorities for filling data gaps. Meetings are open to the public. The Workgroup serves an advisory role to the Regional Environmental Committee.

In FY 2019, meetings were held in September, December, and March. Both the September and December meetings were used as regional stakeholder meetings for the Chesapeake Bay Phase III Watershed Implementation Plan. More information about these meetings is provided in the *Phase III Watershed Implementation Plan* section of this report. The March 7, 2019 meeting featured Dr. Tish Robertson, with the DEQ, who presented on the development of the new chlorophyll-a criteria and assessment for the James River.

PUBLIC EDUCATION

askHRgreen.org

The HR STORM committee, consisting of local stormwater education/public information staff, was established in 1997 to support development and operation of the stormwater education program. Beginning in FY 2011, the HRPDC environmental education programs were combined into a single public awareness program and central resource for environmental education in Hampton Roads known as askHRgreen.org. In January 2018, the new askHRgreen.org website launched. The website contains information on earth-friendly landscaping ideas and pointers for keeping local waterways clean, recycling tips, and simple steps to make local living easy on the environment. It also includes a blog written by a team of local experts who work in the region's municipal utility and environmental divisions.

The stormwater education subcommittee of askHRgreen.org continues to meet on a monthly basis to develop strategies to fulfill the outreach requirements of the current Phase II General Permit and many of the outreach objectives of the individual Phase I permits. During FY 2019, the subcommittee took on a variety of activities, including the development of pollution prevention materials for businesses and expanding the reach of the Bay Star Businesses program. The activities conducted through the askHRgreen.org campaign for the year are summarized in the askHRgreen.org Annual Report.

TRAINING

Since 2004, HRPDC staff has worked with the MS4 permittees to develop and conduct training programs for local government staff. The table below provides a summary of the FY 2019 programs.

Training Topic	Date
Mid-Atlantic Region Environmental Professionals - Beyond the Low Hanging Fruit: Exploring Non-Traditional Stormwater BMPs to Meet Chesapeake Bay TMDL Requirements (webcast)	March 2019
BMP Inspectors Workshop at Old Dominion University	March 2019
Center for Watershed Protection – Nutrient Trading (webcast)	April 2019
Center for Watershed Protection – Tree Crediting for Stormwater (webcast)	June 2019

Webcasts

During FY 2019, the Stormwater Regional Workgroup purchased a series of webcasts from the Center for Watershed Protection and also a webcast presented by the Mid-Atlantic Region

Environmental Professionals. HRPDC hosted the webcasts so that one registration could be shared.

BMP Inspectors Workshop

The Chesapeake Stormwater Network (CSN) was awarded grant funds to provide training workshops in the Chesapeake Bay watershed, and HRPDC staff requested a regional training for local BMP Inspectors. Mr. Tom Schueler, Mr. David Wood, and HRPDC staff coordinated to develop an agenda and secure a location that would offer classroom space and nearby BMPs for site visits. Having the Workshop at Old Dominion University allowed for site visits to multiple bioretention basins, ponds, and pervious pavement practices. Approximately 30 local government staff from the region attended the training, which was provided at no cost.

LEGISLATIVE & REGULATORY MONITORING

This element of the program involves monitoring state and federal legislative and regulatory activities that may impact local stormwater management programs. HRPDC staff in cooperation with the Committee develops consensus positions for consideration by the Commission and local governments. The level of effort devoted to this element has increased significantly over the years. During FY 2019, the regional emphasis was on the non-point nutrient trading regulations, the Construction General Permit reissuance, developing guidelines for the use of proprietary BMPs for stormwater regulation compliance, and development of Virginia's Phase III Watershed Implementation Plan for the Chesapeake Bay TMDL. For each issue, HRPDC staff provided updates to the Regional Stormwater Workgroup or the Regional Environmental Committee, collected input, and submitted comments on behalf of the Region. If a stakeholder group was assembled for a particular issue, then the Region nominated a representative to serve on behalf of the localities.

Virginia Nutrient Trading Regulations

In 2012, the Virginia General Assembly passed legislation requiring the State Water Control Board to adopt regulations for the certification of nonpoint source nutrient credits. Nonpoint credits include credits generated from agricultural and urban stormwater BMPs, management of animal feeding operations, land use conversion, stream or wetlands restoration, shellfish aquaculture, and other established or innovative methods of nutrient control or removal. Virginia's current trading program involves exchanges between point sources and from point to nonpoint sources. This regulation is another step towards a successful trading program because it will make additional nonpoint source nutrient credits available for point or nonpoint source trades. This expanded trading program is part of the overall goal of meeting the reductions assigned by the Chesapeake Bay TMDL.

The regulation will establish the process for the certification of nonpoint source nitrogen and phosphorus nutrient credits and assure the generation of the credits. The regulation includes application procedures, baseline requirements, credit calculation procedures, release and registration of credits, compliance and reporting requirements for nutrient credit-generating

entities, enforcement requirements, application fees, and financial assurance requirements.

From FY 2013 to FY 2017, HRPDC staff has served on the Regulatory Advisory Panel established to assist the DEQ in developing the certification regulations. The DEQ proposed the regulations for public comment in the Virginia Registrar on December 29, 2014. The HRPDC submitted comments to the DEQ in March 2015 that: 1) supported the definition of management area, 2) requested a public hearing be held for nutrient certification requests, 3) asked for clarification of credits purchased within MS4s by private parties, and 4) suggested revisions to ensure that the regulations are protective of local water quality.

In FY 2016, the DEQ reconvened the Regulatory Advisory Panel to discuss “Innovative Practices, Perpetual Nutrient Credits/Permanence, Stream Restoration/Mitigation Banking, and Term Nutrient Credits” based on the number of comments received during the public comment period.

In FY 2017, the Regulatory Advisory Panel met in April to discuss a list of issues that failed to reach consensus. It was anticipated that a revised regulation would go out for public comment later that year.

The Governor approved the draft regulation, and it was published in the Virginia Register on April 15, 2019. The HRPDC submitted comments that: 1) requested clarification that baseline conditions must be met within the MS4 service area before credits could be generated, 2) requested flexibility for VSMP Authorities to require credits be secured upstream of the discharge to protect local water quality, and 3) supported requiring credit applicants to verify that their projects comply with local ordinances.

It is anticipated that the final regulations will be approved later this year.

Construction General Permit Reissuance

The existing Construction General Permit (GP) expired on June 30, 2019. HRPDC staff serves on the TAC for the permit reissuance. The TAC met monthly from January through June 2018. The TAC was focused on addressing the projects that are still subject to the old stormwater management criteria (Part IIC) and ensuring that the Virginia Construction GP was consistent with the 2017 EPA Construction GP.

The TAC had extensive discussions on the definition of land disturbance, particularly as it relates to whether a grandfathered project or a project subject to the time limits of applicability could continue to be subject to the old stormwater criteria. The portions of those projects that had commenced land disturbance within the specified timeframe could continue; however, if land disturbance had not commenced and the portion was not covered in the stormwater management plan, the owner would have to redesign that portion in accordance with the new stormwater criteria (Part IIB).

DEQ presented the revised draft of the Construction GP at the September 2018 State Water Control Board meeting and then initiated a formal public comment period. HRPDC submitted a comment letter detailing several regional concerns, including: 1) permitting off-site support activities associated with state projects, 2) applicability of the technical design criteria, 3) requirements for sites that discharge to PCB-impaired waters, and 4) the potential impacts of the legislation that extends the approvals of subdivision site plans to 2020 on projects that are subject to the grandfathering provisions, which expire in 2019.

The State Water Control Board approved the final 2019 Construction GP in April of this year, and the permit was effective on July 1, 2019.

Proprietary BMPs for Stormwater Compliance

The post-construction water quality requirements require approval from DEQ for use of proprietary BMPs in Virginia. The Stormwater BMP Clearinghouse Committee was established in order to provide guidance to the DEQ on BMP listing criteria, Clearinghouse website content, and database design. Regional input centered on defining the proposed role of the Clearinghouse in approving proprietary BMP pollutant removal efficiencies.

At the end of FY 2014, the DEQ issued interim guidance that describes a process for approving these proprietary BMPs and assigning pollutant removal credits: “Interim Use of Stormwater Manufactured Treatment Devices (MTDs) to meet the New Virginia Stormwater Management Program (VSMP) Technical Criteria, Part IIB Water Quality Design Requirements.” In FY 2015, the Clearinghouse Committee focused on the approval process for MTDs and discussed how and when the guidance should be updated or replaced with regulations. HRPDC staff has been involved with a cooperative effort to request that DEQ add sizing criteria to the guidance.

In FY 2016, DEQ began the process of revising the guidance and updating the BMP Clearinghouse to include sizing for MTDs. During FY 2019, DEQ developed new draft guidance on evaluating MTDs. The Clearinghouse Committee members were asked to review it and provide comments. The regional concerns included: 1) reciprocity and the applicability to Coastal Plain Virginia, 2) MTDs currently listed on the BMP Clearinghouse, 3) the transition period from the existing guidance to a new one, 4) the removal efficiency cap for filtering devices, and 5) the removal efficiencies for hydrodynamic separators. It is anticipated that DEQ will respond to comments at the next meeting of the BMP Clearinghouse Committee, which is scheduled for August 15, 2019.

HRPDC staff has continued to monitor the parallel efforts by the Chesapeake Bay Program (CBP) and the Water Environment Federation to develop testing protocols for MTDs.

Virginia’s Phase III Watershed Implementation Plan for the Chesapeake Bay TMDL

The EPA established the Chesapeake Bay TMDL on December 29, 2010 that included a Phase I Watershed Implementation Plan (WIP) developed by Virginia that outlined the statewide strategies that would be implemented by each source sector to achieve TMDL compliance. In

March 2012, Virginia submitted its final Phase II WIP to EPA that outlined the management actions that will be implemented by local governments. The HRPDC participated in both efforts on behalf of the local governments and submitted regional input for the Phase II WIP entitled, *Hampton Roads Regional Planning Framework, Scenario, and Strategies*.

In FY 2015, Virginia began the development of the Phase III WIP with the establishment of the Chesapeake Bay Stakeholder Advisory Group. HRPDC staff continues to participate in the Stakeholder Advisory Group and attended the meetings in August and November 2018 and January and March 2019.

As part of the state's efforts to develop the Phase III WIP, DEQ staff led outreach meetings across the state. HRPDC hosted the outreach meeting for Hampton Roads on July 17, 2018. DEQ staff reviewed the progress Virginia has made so far in reaching the goals of the TMDL, discussed the schedule for the development of the Phase III WIP, and explained the role of localities.

In FY 2019, DEQ contracted with the Planning Districts in the Bay watershed to develop strategies for reducing nitrogen and phosphorus loads (known as local area planning goals) in the unregulated developed, natural, and septic sectors. As part of this effort, HRPDC staff coordinated four stakeholder meetings from August through December 2018 to gather data, share best practices, discuss potential management strategies, and propose policy changes for obtaining nutrient reductions. Each meeting was attended by approximately 35 representatives of local governments, consultants, nonprofit organizations, HRSD, DEQ, VDOT, VDH, local health districts, and the Soil Water Conservation Districts. As part of the data gathering effort, regional GIS layers relevant to the success of the Phase III WIP were made available on HRGEO, HRPDC's online regional GIS data portal. The HRPDC submitted a BMP input deck and a table of programmatic actions as part of the contract with DEQ. The regional BMP input deck included the numbers of acres of BMPs such as shoreline management, tree planting, septic pump-out, bioretention basins, dry ponds, etc. that the Hampton Roads localities proposed to implement before 2025. The programmatic actions represent a list of recommendations that would facilitate BMP implementation or help the Commonwealth achieve local area planning goals. Many actions addressed deficiencies in state funding, technical assistance, and reporting gaps. HRPDC staff were invited to present the region's Phase III WIP efforts at the VA Water Environment Association Spring Seminar in April 2019.

The DEQ released the draft Phase III WIP in April 2019 and initiated a formal public comment period. The HRPDC supports several of the initiatives that were included in the WIP, such as Virginia's commitment to three full five-year MS4 permit cycles, the development of a State Lands WIP, and the pursuit of adequate funding for SLAF. The region submitted a formal comment letter with several recommendations, including: 1) formalize a State Lands WIP in the Chesapeake Bay modeling tool, CAST, 2) expand access to the Virginia Conservation Assistance Program to all residents in the Bay watershed, 3) enhance BMP reporting, 4) explain why additional nutrient reduction targets were assigned to the James River, when those reductions

are 1/6 as effective as pounds reduced in other basins, 5) prioritize projects in the James River for Water Quality Improvement Funds (WQIF), 6) reduce the goals for tree canopy expansion to a realistic target, 7) align state funding priorities with Phase III WIP goals, and 8) revise the numeric reductions on climate change impacts and shift to an adaptive management approach.

The EPA reviewed the draft Phase III WIP concurrently and identified both strengths and potential enhancements. Virginia's extensive engagement at the local level was listed as the primary strength, while providing more details on funding needs was the most notable recommended improvement. Virginia will release the final Phase III WIP in August 2019.

REGIONAL STUDIES

Water Quality Monitoring Study

In FY 2014, the HRPDC and the Phase I MS4 localities partnered with the USGS and the HRSD to create the Hampton Roads Regional Water Quality Monitoring Program (RWQMP). The purpose of the study is to characterize the sediment and nutrient loadings from the major urban land-uses in the Hampton Roads region. The data collected during the first three to five years will serve as a baseline for nutrient and sediment loads from the MS4s prior to implementation of BMPs in the studied watersheds to comply with the Chesapeake Bay TMDL. In addition these measured sediment and nutrient loads will be compared to the loading rates in the Chesapeake Bay Watershed Model and used to improve the accuracy of the model in the Coastal Plain. In FY 2015, the locations of the 12 stations (2 per Phase I locality) were selected, and seven stations were installed. In FY 2016, three additional stations were installed. In FY 2017, the remaining two stations were brought online. In FY 2018 and FY 2019, all twelve stations continued to collect storm event samples, which are analyzed for nutrients and sediments. The stations continuously monitor flow, turbidity, temperature, and conductivity. Additional information on the project objectives, site locations, and data collected can be viewed here: <http://va.water.usgs.gov/HRstormwater/index.html>.

The RWQMP was incorporated into the Phase I MS4 permits. HRPDC staff develops an Annual Report that includes the locations of monitoring stations, a summary of available data, and an interpretation of the data to include in the Phase I MS4 Annual Reports. The report is based on the annual update presented to the Regional Stormwater Workgroup by Mr. Aaron Porter (USGS). Once five years of data has been collected and analyzed from all twelve stations, Mr. Porter will begin to compare the pollutant loadings to those in the Chesapeake Bay model.

Stormwater Program Matrix

A comprehensive stormwater program matrix, including Phase I and Phase II MS4 permittees, was developed in FY 2000 to address both utility and programmatic issues. The matrix includes the rate structures, the type of bill, the frequency of billing, the number of utility customers, and program contact information. HRPDC staff coordinates with local government stormwater program staff to update the information in the matrix annually.

Stormwater Retrofit Projects in the Region

A master regional list of stormwater retrofits that have been completed, are under construction, or are in design was developed in FY 2019. The list includes construction costs, total costs, BMP type, acres treated, pollutant removal, etc. HRPDC staff will coordinate with local government staff to update the information regularly.

Local TMDL and Implementation Plan Development

The state has developed a substantial number of TMDL Studies and TMDL Implementation Plans. This work follows the classification of the waters by the state as meeting or failing to meet water quality standards. Water bodies that fail to meet water quality standards are classified as “impaired,” triggering the requirement to prepare the TMDL study. HRPDC staff has coordinated regional involvement in the “impaired waters” listing and TMDL development process. This has entailed providing opportunities through the Regional Environmental Committee for education of local government staff on the TMDL process, response to the development of TMDLs themselves, and participation in the development of implementation plans.

To assist the region’s localities in addressing this requirement and ensuring that Implementation Plans are feasible, HRPDC staff is working with the DEQ through a cooperative regional partnership to coordinate the TMDL study process with the localities and to develop the required Implementation Plans. In FY 2014, the HRPDC partnered with the DEQ, Hampton Roads localities, and the HRSD to develop a study plan to collect stormwater samples from the Elizabeth River watershed and analyze them for polychlorinated biphenyl (PCB) concentration in order to support the development of the Lower James and Elizabeth River PCB TMDL. Stations in Chesapeake, Norfolk, Portsmouth, and Virginia Beach were selected because they met the criteria for representative land uses and watersheds where PCBs could be monitored. In FY 2015, water samples were collected at these stations by the HRSD and sent to the DEQ selected laboratory for PCB analysis. The MS4 localities in Hampton Roads funded the data collection and the DEQ paid for the analysis. The PCB TMDL for the Lower James and Elizabeth River was expected to be developed in FY 2017; however, the DEQ experienced a number of staffing changes and other delays. It is expected sometime during FY 2020.

HRSD Bacteria Source Tracking

HRSD began a pathogen program to conduct bacteria source tracking in June 2015. The program was designed as a way to partner with local governments to focus source identification efforts. HRSD is providing sampling and analysis services while the local governments are providing staff time for the investigations. Several localities have taken advantage of the program including Chesapeake, Hampton, Newport News, Norfolk, Virginia Beach, and Suffolk.

TECHNICAL ASSISTANCE

The HRPDC continues to serve as a clearinghouse for technical assistance to the localities, as well as a point of contact in arranging short-term assistance from one locality to another. The

HRPDC Committee structure also provides a forum for state and federal regulatory agency staff to meet with the region's localities to discuss evolving stormwater management regulations and other emerging regulatory issues. In addition, HRPDC staff provides technical information and advice to all of the participating localities on a wide variety of issues upon request. In FY 2019, technical assistance to localities was focused on disseminating information related to implementation of and compliance with the Chesapeake Bay TMDL, providing training resources for locality stormwater staff, and evaluating the real world challenges of interpreting and implementing the local stormwater programs.

MEMORANDUM OF AGREEMENT

The Regional Stormwater Management Program was established in 1996 as a formal program of the Hampton Roads Planning District Commission with support and participation from the seventeen member local governments. An MOA was created that outlines the basic regulatory and programmatic premises for the cooperative program, incorporating the Regional Program Goals, described earlier in this report. The MOA establishes a division of program responsibilities among the HRPDC and the participating localities, addresses questions of legal liability for program implementation, and includes other general provisions. The MOA is reauthorized by the signatories every five years and was most recently renewed in 2018.

PERMIT ADMINISTRATION AND REPORTING SYSTEM (PARS)

In an effort to streamline reporting and capture data more effectively for local governments, the permitted localities pooled resources to develop the Permit Administration and Reporting System, or PARS. The region contracted with URS Corporation to develop a web-based data tracking and reporting system. The system allows local governments to catalog development sites and their associated BMPs. The system also enables localities to capture inspection information, catalog stormwater outfalls, document illicit discharge investigations and record public education information. The Regional Stormwater Workgroup agreed to retire PARS on June 30, 2016 for all users except Chesapeake, James City County, Norfolk, Suffolk, and Williamsburg as it no longer met reporting and tracking needs. These five localities agreed to continue to support PARS through December 2016. Norfolk and Chesapeake continue to support the database into FY 2020 while alternative systems are under development in those localities.

RELATED PROGRAMS AND PROJECTS

In various combinations, the eleven MS4 communities, as well as their non-permitted counterpart communities, participate in a wide variety of related programs. These programs are noted here because of their relationship with stormwater management.

Chesapeake Bay Program Participation

The CBP is a regional partnership that has led and directed the restoration of the Chesapeake Bay since 1983. CBP partners include federal and state agencies, local governments, non-profit

organizations and academic institutions. Partners work together through the CBP's goal teams, workgroups and committees to collaborate, share information, and set goals.

Since the development of the Chesapeake Bay TMDL in December 2010, the Hampton Roads Region has devoted considerable attention to the research, developments, and decisions ongoing within the CBP. HRPDC and locality staff have participated in the deliberations of many CBP committees and work groups dealing with urban stormwater, land development, watershed planning, land use development, modeling and local government's role in the Bay Program. HRPDC staff are local government representatives of the Urban Stormwater Workgroup and the Climate Resilience Workgroup, and co-chair of the Land Use Workgroup. Staff also follow the activities of the Watershed Technical Workgroup and the Water Quality Goal Implementation Team. Staff attended the CBP's Urban Stormwater Retreat in May 2019, bringing in local speakers and moderating a session to look at climate change impacts on the future of urban stormwater. Through the Urban Stormwater Workgroup, HRPDC staff are informing the Bay Partnership of the resilience work being done in the region, sharing findings of analyses and policies, and advocating for research on the co-benefits of BMPs for water quality and flooding concerns. HRPDC staff also serves on Virginia's WIP III Stakeholder Advisory Group (SAG) and participated in the development of the James River chlorophyll-a study.

Virginia Stormwater Management Program (VSMP) Outreach

The VSMP Authorities have been administering programs for five years. DEQ led a series of outreach meetings across the Commonwealth to discuss local program implementation, successes, challenges, and the reissuance of the Construction GP. The HRPDC hosted the meeting on May 29, 2019. Representatives from 14 localities and DEQ's Central and Tidewater Regional Offices were in attendance. The topics of discussion included identifying training needs for contractors and designers, securing Construction GP coverage for VDOT offsite support activities, and ideas to better manage those projects that are designed through multiple iterations of the site plan review process.

Trading with HRSD

HRSD, HRPDC staff, and the MS4 permittees collaborated to develop a regional template for MOAs to establish the framework for trading stormwater pollutant reduction credits. Individual MOAs with each of the eleven MS4 permittees were signed in 2017.

Currently HRSD treatment plants operate well below design flows, as those were established to ensure capacity to support regional population projections in 2040 and beyond. Annual average flows in 2015 were approximately 60% of design flows. As a result of plant flows well below design flows in combination with significant investment in nutrient removal technologies, HRSD currently discharges nutrients and sediment significantly below permitted limits and is projected to do so for the foreseeable future. The difference between permitted mass load limits and current performance provides ample capacity to absorb load reductions required from stormwater dischargers in Hampton Roads through at least 2036.

HRSD is developing the Sustainable Water Initiative for Tomorrow (SWIFT) project, their multi-year initiative that will take treated wastewater, purify it to drinking water standards, and then inject it into the Potomac Aquifer. In addition to replenishing the water in the aquifer, the SWIFT project will significantly reduce the volume of treated wastewater reaching the James, York, and Elizabeth Rivers. The project will generate enough permanent nutrient and sediment credits to meet almost all of the regional urban stormwater waste load allocations in the Chesapeake Bay TMDL. Mr. Ted Henifin (General Manager for HRSD) has given several presentations on the project at the Regional Environmental Committee and Regional Stormwater Workgroup meetings.

Trading with HRSD, first using the capacity credits and then using the permanent credits from SWIFT, allows MS4 permittees to change their focus from costly stormwater retrofit projects to addressing recurrent flooding and climate change adaptation.

CONCLUSION

Through the Hampton Roads Planning District Commission, the seventeen localities of Hampton Roads have established a comprehensive Regional Stormwater Management Program. This program provides technical assistance, coordination, comprehensive technical studies and policy analyses and stormwater education. The Regional Stormwater Management Program enables the region's localities to participate actively and effectively in state and federal regulatory matters. It has enhanced the ability of the eleven localities with VPDES Permits for their Municipal Separate Storm Sewer Systems to comply with permit requirements.

The Regional Stormwater Management Program provides a mechanism through which the strengths of the seventeen local stormwater programs can be mutually supportive. It allows for cost-effective compliance with permit requirements, resolution of citizen concerns with stormwater drainage and water quality matters, promotes regional consistency, and achievement of improved environmental quality throughout the Hampton Roads Region.

Part C – Section 2

**Minimum Control Measure #2
Public Involvement and Participation**

James City County Compliance Summary Statement

MCM2 Public Involvement and Participation

Permit Reporting Year 1 - July 1, 2018 - June 30, 2019

In order to keep the public involved in the activities of local government, the County's updated program plan, MS4 annual reports, Chesapeake Bay TMDL Action Plan, Bacteria TMLD Action Plans are posted on the County's Stormwater and Resource Protection Division website. The Division's website also contains information on volunteer opportunities, water quality summaries, meeting minutes, and an email link for citizen input and requests.

During the next permit reporting year, the County will continue to implement the Stormwater Education Plan through similar successful events, activities, and coordination with askhrgreen.org. James City County staff worked diligently in cooperation with volunteers, other localities, the Colonial Soil and Water Conservation District (CSWCD), and the Hampton Roads Planning District Commission (HRPDC) to educate and encourage citizens to make responsible choices and treat local waterways with care.

The MS4 Program Plan and Stormwater Website can be found at the links below:

<https://jamescitycountyva.gov/857/Stormwater-Resource-Protection>

<https://jamescitycountyva.gov/992/MS4-Permit>

Highlights of James City County Public Participation Plan for the 2018-2019 reporting year include the following:

- Stormwater Program Advisory Committee (SPAC) - During the 2018-2019 reporting year, there were six (6) regular meetings held, one (1) Farmer's Market outreach event, two (2) additional outreach events (James Riverfest/ Fido Fest), one (1) tour of capital projects, and one (1) meeting at a County Board of Supervisors work session. The SPAC has been determined to be beneficial for water quality improvement in providing citizen input to stormwater issues in the County.
- Clean Water Heritage BMP Grants – During the 2018-2019 reporting year, 25 projects were implemented totaling \$250,112 in funding provided by the County. The Clean Water Heritage BMP Grants have been determined to be beneficial for water quality in providing assistance to Homeowners Associations (HOAs) to fix failing stormwater systems that otherwise would not have the financial means or guidance to accomplish the projects.
- Volunteer water quality monitoring during the 2018-2019 reporting year included coordination with the Alliance for the Chesapeake Bay. A total of four (4) volunteer monitors were trained to test for pH, clarity, dissolved oxygen, temperature, and bacteria and conducted monthly samples at five (5) sites around the County. James City County continued to coordinate with The James River Association in sampling for bacteria levels at the Jamestown Beach for health advisories. Volunteer water quality monitoring has been determined to be beneficial for water

quality in providing hands on opportunities for citizens to become involved in the health of local rivers and streams.

- Pet Waste Station Program – A total of seven (7) pet waste stations were approved to be given to HOAs during the 2018-2019 reporting year. The County's Stormwater and Resource Protection Division provides up to two (2) free pet waste stations to each eligible HOA. An application for a free pet waste station for a HOA is provided on the Division's website. As part of the application, HOAs acknowledge that they will install the stations within 60 days of receipt from the County, notify the residents of the subdivision about the pet waste station, and agree to properly maintain it including refilling bags and emptying the waste container. In addition, pet waste stations are provided at many County parks. The pet waste station program has been determined to be beneficial for water quality in reducing bacteria loads in highly trafficked areas for pet waste disposal.
- Public Input – While no input was received specifically in relation to the MS4, the James City County Stormwater and Resource Protection Division responds daily to citizen's concerns regarding stormwater issues totaling 273 citizen requests during the 2018-2019 reporting year. The Division responds via phone and email communication and, if necessary, field visits.

Part C – Section 2

**Minimum Control Measure #2
Public Involvement and Participation**

Exhibits



(revised March 12, 2019)

Stormwater Program Advisory Committee FY 2018/2019

LAST NAME	FIRST NAME	DISTRICT	TERM EXPIRES JUNE 30	19-Jul	20-Sep	15-Nov	15-Jan	21-Mar	16-May	18-Jul				
Carter	Glen J.	Roberts	2019	A	A	P	A	P	A	A				
Curtis	Darren	Berkeley	2022	P	P	P	P	P	A	P				
Doggett	Philip	Stonehouse	2021	A	A	P	P	P	P	A				
Gasink	Bob	Jamestown	2022	A	A	A	A	A	A	A				
Hitchens	Tom	Powhatan	2022	P	P	P	P	P	P	A				
Laur	Arne	Roberts	2021	P	P	p	A	P	P	P				
Loubier	Anthony	Stonehouse	2021	P	P	P	P	p	P	P				
Polster	Frank	Jamestown	2021	P	P	P	P	P	P	P				
Powell	Richard	Berkeley	2021	A	P	P	P	P	A	P				
Ruffle	Wendy	Berkeley	2021	P	P	P	P	P	P	A				
Smith	Erin	Jamestown	2022	A	p	P	P	A	P	P				
Younica	Alexandra	Berkeley	2022	P	P	P	P	P	P	P				
Lund	Bob	Colonial SWCD	Non-Voting	P	P	P	P	A	P	A				
								Robyn Goad	Robyn Goad	Robyn Goad				
QUORUM (7) Yes / Nc				Y	Y	Y	Y	Y	Y	Y				



Key Programs

Building Stewardship

Project Clean Stream

Chesapeake Monitoring Cooperative

River Trends

Turkey Hill Clean Water Partnership

Businesses for the Bay

Restoring the Occoquan Watershed

Conserving Chesapeake Forests

Reducing Stormwater Runoff

Assisting Local Governments

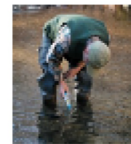
Networking & Education

Home / Our Work / Key Programs / Building Stewardship

Chesapeake Monitoring Cooperative

Working together to understand the health of our waters

The **Chesapeake Monitoring Cooperative** is a group of leading organizations that provide technical, programmatic, and outreach support in order to integrate volunteer-based and non-traditional water quality and macroinvertebrate monitoring data into the Chesapeake Bay Program partnership. Currently there are many sources of data, including data collected by volunteers, local governments and NGOs, that are not being used to track Bay health. Data contribution by this network of volunteer and non-traditional sources will provide valuable information and create a comprehensive understanding of the Chesapeake Bay Watershed, the health of the bay, and the success of restoration efforts.



Vision

Chesapeake Monitoring Cooperative envisions a Chesapeake community where all data of known quality are used to inform watershed management decisions and restoration efforts.

Mission

Chesapeake Monitoring Cooperative works with diverse partners to collect and share new and existing water quality data. Through this collaboration, we aim to develop a comprehensive understanding of Chesapeake Bay Watershed health.

Website

For more information about the Chesapeake Monitoring Cooperative and how to apply, please visit the [CMC website](#).

Resources

CHESAPEAKE DATA
EXPLORER

APPLICATION FOR
ASSISTANCE

MONITORING RESOURCES

The CMC was formed as a partnership between the following organizations:



Chesapeake Bay Program
A Partnership Partnership:



Do you want to join the Chesapeake Monitoring Co-op? Please email: Li.Chutaba@allianceforthebay.org.

Alliance for the Chesapeake Bay Training



Permit Reporting Year 2018-2019
Clean Water Heritage Grant Tracking

Project Location	Project Type	Description	Selected Contractor	Winning Bid	Projected Funding	Invoice	Pay Amount
Colonial Heritage	BMP	YC0039 liner repair	Exact	19,000.00	7,500.00		
Colonial Heritage	Drainage	Chapel Crossing/Old Lock erosion repair with engineering	Exact	17,200.00	8,600.00		
Colonial Heritage	Drainage	Lord Dunmore erosion repair with engineering	Exact	9,400.00	4,700.00		
Cromwell Ridge	BMP	Clear woody vegetation and repair erosion.	Longhill	2,000.00	1,000.00		
Fairways Villas	Drainage	57 LF of 30" pipe from manhole to pond	Prism	16,115.00	8,076.00		
Fernbrook	Drainage	CIIP lining of 15"RCP	Prism	18,845.00	9,798.00		
Fernbrook	BMP	Woody Vegetation and Tree removal on embankment and regrading of emergency spillway	Longhill	10,950.00	5,475.00		
Fernbrook	Inspection	Inspection of 5 drain lines	WB&E	2,078.00	1,559.00		
Ford's Colony	Inspection	Inspection 9A 2030 LF of HDPE	Tri- State	11,760.00	6,000.00		
Ford's Colony	Inspection	3680 LF HSCP mostly 15"	Tri- State	14,700.00	6,000.00		
Ford's Colony	Drainage	Section 30 Pipe Replacement 220LF of 18" HDPE	Longhill	81,335.00	40,668.00		
Greensprings West	Drainage	(CIPP Repair 1) Phase 2&3 pipe repair (CIPP): 3269 Windsor Ridge 15" x 94LF of CIPP; 3296 Windsor Ridge 18" x 186 LF; 3251 Westover Ridge 18" x 144 LF; 4038 Thorngate 30" x 107 LF	Tri- State	69,502.00	34,751.00		
Greensprings West	Drainage	(CIPP Repair 2) Phase 2 Pipe Repair: 4035 Thorngate 24" spot repair 224 LF; 3283 Westover Ridge 15" 154 LF; 3256 Westover Ridge 24" Spot repair and lining 214 LF	Prism	37,870.00	18,935.00		
Kingsmill	Drainage	Archers Mead	Landtech	3,832.24	1,917.00		

Permit Reporting Year 2018-2019
Clean Water Heritage Grant Tracking

La Fontaine	Inspection	Inspection (1) Erosion around drop inlets throughout the community Inspection (2) Erosion around drop inlets in the community	WB&E	8,886.00	6,000.00		
Pointe at Jamestown	Inspection	Video inspection	WB&E	3,174.00	2,381.00		
Pointe at Jamestown	Drainage	4664 Yeardley Loop pipe repair:	Gilley	4,800.00	2,400.00		
Powhatan Crossing	BMP	Repair 147.5 LF of pipe from SS-24 to end section SS-23	Prism	26,590.00	13,295.00		
Powhatan Village	Drainage	Repair 3 pipe sectionsRepair 5 areas of subsidence(Titan Court, Basswood, Greendale, Pleasant View, Eaglebrook)	Prism	21,020.00	10,510.00		
Powhatan Village	Inspection	Complete Video Inspection of neighborhood	WB&E	1,956.50	1,467.00		
Stonehouse	Inspection	Inspection of multiple sections	WB&E	11,357.50	6,000.00		
The Mews	BMP	Install 2 First Defense structures	AES	4,150.00	2,075.00		
Wellington	Drainage	Repair eroding outfall	Gilley	43,000.00	21,500.00		
Westmoreland	BMP	Clear clogged micro-pool and inlet to principal spillway and remove woody vegetation and a few trees	Gilley	4,200.00	2,100.00		
Williamsburg Landing	Drainage	Repair 6 flumes: Repair/replace v-ditch and tree removal	Henderson	54,809.74	27,405.00		
				\$498,530.98	\$250,112.00	\$0.00	\$0.00

Pet Waste Stations Provided by James City County										
Neighborhood	Qty	FY	Watershed	Contact person	Phone	Email	Location	Latitude	Longitude	Inspection Date
James Square	1	09	Mill	Betty Jo Terrell	757-220-8993	bettyjoatremax@hotmail.com	Green space near mailboxes	-76.7344048	37.24946877	12/04/2015
Villages at Westminster	2	09	Powhatan	CJ Jones	757-592-5350	cjjones@berkeley-realty.com	On main thoroughfare- Wellesley Blvd	-76.74855503	37.32957026	12/04/2015
			Powhatan				Chelsea Crescent Lane	-76.75184828	37.33124573	12/04/2015
The Pointe at Jamestown	1	10	Powhatan	Bill Van Elburg	757-345-5383	welburg@unitedproperty.org	Community park	Run Over	Run Over	
Bradshaw Ordinary	1	10	Mill	Philip Neubia	757-565-7445	neubia6@verizon.net	Along Bradshaw Dr			
Raleigh Square	2	10	Powhatan	Melissa Saab		melissa@brooks-re.com	Between units and Jamestown Road	-76.75792400	37.23768100	12/07/2015
			Powhatan				Open space area facing Albemarle Dr	-76.75825700	37.23709400	12/08/2015
Kristiansand	1	12	Yarmouth	Ken Hill	757-645-1216	khanews@hotmail.com	Playground/open space area	-76.77220700	37.35962200	12/08/2015
Williamsburg Christian Retreat	1	12	Diascund	Bob Briscoe	757-566-2256	director@wrcr.info	On retreat property near Racefield	-76.85161800	37.42634500	12/08/2015
EcoDiscovery Park	2	12	Powhatan	Kim Barry	757-565-7328	kim@ecodiscoverypark.org	On property	-76.77838400	37.22645100	12/07/2015
			Powhatan				One is broken	Broken	Broken	12/07/2015
First Colony	1	12	James River	Lisa Tuckey	804-758-6773	lisatuckey@hotmail.com	At marina	-76.81138900	37.23941400	12/08/2015
Colonial Heritage	3	12	Yarmouth	Sally Pittman Smith	757-645-9180	spittmansmith@cox.net	Along sidewalks and walking areas	-76.76581991	37.34794223	12/04/2015
			Yarmouth				Along sidewalks and walking areas	-76.7661827	37.34716853	12/04/2015
			Yarmouth				Along sidewalks and walking areas	-76.76955835	37.34629660	12/04/2015
	1	18	Yarmouth	Michael Lee	757-645-2000	mlee@colonialheritageclub.org				
Oxford Lane	1	12	Mill	Steve Tewksbury	757-564-8395	swtewk@gmail.com				
Williamsburg Village	1	13	Yarmouth	Melissa Saab	345-5062	melissa@brooks-re.com	Dog park at rear of property	-76.76865400	37.35910400	12/08/2015
Carters Village	1	13	Skiffes	Melissa Saab	345-5062	melissa@brooks-re.com	Near the playground, by the woods edge	-76.60529600	37.20770200	12/08/2015
Burlington Woods	1	13	Powhatan	Melissa Saab	345-5062	melissa@brooks-re.com	Playground	-76.78369800	37.31393500	12/07/2015
Jamestown Hundred	1	14	Powhatan	Jeffrey Seiler	757-784-0709	jsjthundred@gmail.com	In front of the common area			
Monticello Woods	1	18	Powhatan	Ashley Benbow	757-345-5383	aseitter@unitedproperty.org	Intersection of Ambassador Cir. and Indep	-76.77956400	37.265868,	
	1	14	Powhatan	Mike Sousa			Walking path at BMP	-76.78265500	37.26670000	12/08/2015
Governors Land	3	14	James River	Lisa Smith	757-253-6976	lisa@govlandhoa.hrcxmail.com	A central park area at a walking trail continuous throughout park	-76.82920000	37.24843500	12/08/2015
			James River				Barrets Pointe Rd at River Oaks Rd	-76.86488100	37.24589100	12/08/2015
			James River				At marina	-76.86435700	37.24282400	12/08/2015

Fenwick Hills	2	14	Ware	Melissa Saab	757-229-1507	melissa@brooks-re.com	Along the Walking Trail	-76.79948600	37.40850700	12/08/2015
			Ware				In front of basketball court	-76.79953400	37.40530900	12/08/2015
Mulberry Place	1	14	Powhatan	CJ Jones	757-592-5350	cjjones@berkeley-realty.com	Playground Commons	Not there- sign put on trashcan	Not there- sign put on trashcan	12/07/2015
Seasons Trace	1	14	Powhatan	Ted Johnson	757-565-6066	nimitzcheng@yahoo.com	Corner of Seasons Trace Rd and Autumn on bike path	-76.76137900	37.31969000	12/07/2015
Midlands	2	14	Mill	Pierre Forget	229-6810 x203	pforget@berkeley-realty.com	Open space area	-76.74399700	37.26788600	12/08/2015
			Mill				parking lot	-76.74433900	37.26869600	12/08/2015
Skiffes Creek Terrace	2	14	Skiffes	Jennifer Norman	757-874-4900	jnorman@abbitt.com	High Traffic Area in Community	-76.60670700	37.20848700	12/08/2015
			Skiffes				Near playground	-76.60531400	37.20978800	12/08/2015
Powhatan Secondary	1	14	Powhatan	CJ Jones	757-592-5350	cjjones@berkeley-realty.com	At clubhouse	-76.77483800	37.27117400	12/08/2015
Glenwood Acres	1	14	York River	Kim Griffith	757-880-9321	kimgriffith3@outlook.com	left side of Old Mill Lane about half way down the street in front of the two story brick house	-76.75944700	37.39291100	12/08/2015
Colonial Heritage	2	14	Yarmouth	Bob Wills	757-229-5152	bwills4@cox.net	Along a walking path in Colonial Heritage	-76.77128881	37.34569956	12/04/2015
	1	18		Michael Lee	757-645-2000	mlee@colonialheritageclub.org	Units to be installed in phase 6-1 of community			
Marywood			Yarmouth				Along a walking path in Colonial Heritage	-76.77433367	37.34353790	12/04/2015
	2	15	Mill	Katja Smart	757-903-4147	katja.smart@gmail.com	Near the playground, and the walking trail	-76.74489000	37.24934100	12/07/2015
Williamsburg Village at Norge	1		Yarmouth				Near a walking trail by BMP	-76.74851600	37.24582100	12/07/2015
	1	19		Melissa Saab	757-220-1307	melissa@brooks-re.com	Near entrance of pet park	(-76°35.019)	N37°12.624	
Adams Hunt	1	15	Yarmouth	Darcy Morrison	757-220-1307	darcym23@gmail.com	Near Mailboxes	-76.76661100	37.35921100	12/08/2015
Governors Grove	1	15	Powhatan	Peggy Mason	757-272-2523	peggyas@msn.com	On the side of the road near the open lot	-76.77282015	37.33287991	12/04/2015
	1	18		Terri Hill	757-706-3019	thill@1cbm.com				
Longhill Station	2	18	Powhatan	Terri Hill	(757) 706-3019	thill@1cbm.com	In the common area behind 1801-1806 prosperity court			
Governors Land	1	15	Powhatan	Diane Clarq	757-229-6810	dclarq@berkeley-realty.com	Between pool and tennis court	-76.78613500	37.32624700	12/07/2015
Point at Jamestown	1	15	James River	Lisa Smith	757-253-6976	lisa@govlandhoa.hrcoxmail.com				
Village Square	2	16	Powhatan							
Powhatan Secondary	1	16	Mill							
White Hall	1	16	Powhatan							
Weatherly at White Hall	2	16	Ware							

Villages at Candle Station	1	16	Ware							
	1	18		Ashley Benbow	757-345-5383	aseitter@unitedproperty.org				
Settlers Mill	1	16	Yarmouth							
	2	18		Melinda Settle Harris	(757) 706-3019	Melinda Settle Harris				
Jamestown 1607	1	18	Powhatan	Pierre Forget	757-229-6810	pforget@berkeley-realty.com				
		19	Powhatan	Pierre Forget	757-229-6810	pforget@berkeley-realty.com				
Stonehouse Glen	2	19	Powhatan	Pierre Forget	757-229-6810	pforget@berkeley-realty.com				
Cromwell Ridge	1	19	Powhatan	Jen Gililland	757-291-3599	jenc13@yahoo.com	Common Area Field			
First Colony	1	17	James River	C. Dofflemeyer						
Stonehouse	1	18	York River	Terri Hill	757-706-3019	thill@1cbm.com				
Gatehouse Farms	1	19	Mill Creek	J.C. Morton	757-784-1633	Kmjc@aol.com	110 Gate House Blvd			
Stonehouse at Mill Pond	1	19	Ware Creek	Howard Goodman	757-526-0128	operations@mpstonehouse.com	Along walking path			
	1	20	Ware Creek	Howard Goodman	757-526-0128	operations@mpstonehouse.com	Along walking path			

*This table highlights all pet waste stations distributed and is broken down by Fiscal Year. FY 19 distributions have been highlighted.

Neighborhood Assistance Requests
Reporting Year 2018-2019

PIN	Address	Call Date	Type of Request	Status	Subdivision Name	Additional Info
3840850015	108 DEER SPRING RD	7/2/2018	Drainage Problem	OPEN	Indigo Park	Indigo Pk-Indigo Dam-Gilley
3232000025	10 BERKSHIRE ROAD	7/9/2018	Drainage and Soil Erosion Problem	CLOSED	Windsor Forest	Windsor Forest
2210600018	7303 LITTLE CREEK RD	7/9/2018	Drainage and Soil Erosion Problem	CLOSED	Lake Toano Estates	Lake Toano Estates (Pond)
4521000012	3500 MALLARD COVE	7/10/2018	Drainage and Soil Erosion Problem	CLOSED	Fieldcrest	Fieldcrest
3120100008	6258 CENTERVILLE RD	7/11/2018	General/Engineering questions	OPEN	Acreage Lots - Powhatan	Centerville Area Small Acreage
3810900015	108 KEYSTONE	7/12/2018	Drainage Problem	OPEN	Ford's Colony	Ford's Colony (Interior Lots,
4741600024	2708 BROWNSTONE CIRCLE	7/13/2018	General/Engineering questions	OPEN	The Cottages at Stone Haven	Cottages at Stone Haven
1420400035	9049 MARMONT LANE	7/5/2018	Tree removal	OPEN	Ware Creek Manor	Ware Creek Manor
3740800002	104 SANDY POINT RDG	7/9/2018	Illicit Discharge	OPEN	Powhatan Secondary	Powhatan Secondary - P-5B
3040700102	3644 MALLORY PLACE	7/17/2018	RPA questions/issues	OPEN	Liberty Ridge	Liberty Ridge
2110300002	2243 FORGE ROAD	7/18/2018	Inspection questions/issues	OPEN	Warren Farm Estates	Donald Hazelwood Sub.
1220900407	3505 HICKORY NECK BLVD	7/18/2018	Drainage Problem	OPEN	White Hall	White Hall (SFD)
4732400095	4427 LANDFALL DRIVE	7/19/2018	BMP questions/issues	OPEN	Landfall at Jamestown	Landfall at Jamestown P-1
4830800026	5568 BRIXTON ROAD	7/23/2018	Potential Violation	OPEN	Kensington Woods	Kensington Woods
3310400017	107 PEMBERTON LANE	7/24/2018	Drainage Problem	OPEN	Old Stage Manor	Old Stage Manor
5230100094	8704 POCAHONTAS TR	7/24/2018	Drainage Problem	CLOSED	Acreage Lots - Roberts	Alex Harwood/Jackson Terrace/W
4732000059	4723 DELIVERANCE DRIVE	7/24/2018	Drainage Problem	CLOSED	Peleg's Point	Peleg's Point
2310400038	3609 MARLBROOK DRIVE	7/25/2018	BMP questions/issues	OPEN	Toano Woods	Toano Woods
3610100006	350 THOMPSON LANE	7/25/2018	Potential Violation	CLOSED	Acreage Lots - Powhatan	Chickahominy and James Waterfr
5920200049	122 PLANTATION ROAD	7/26/2018	Drainage Problem	CLOSED	Poplar Hall	Poplar Hall
3220800019	84 KESTREL COURT	7/26/2018	Tree removal	OPEN	Heron Run	Heron Run at season's Trace
1640400005	110 PLEASANT POINT	7/26/2018	Drainage and Soil Erosion Problem	OPEN	Riverview Plantation	Riverview Plant(Interior Lots)
3841000007A	116 INDIGO DAM ROAD	7/26/2018	Drainage Problem	OPEN	D.C. Renick on Indigo Dam Road	Jester's Lane/Indigo Dam Road
2210600019	7299 LITTLE CREEK RD	7/27/2018	Tree removal	CLOSED	Lake Toano Estates	Lake Toano Estates (Pond)
3640300012	4009 FRANCES BERKELEY	7/26/2018	Potential Violation	CLOSED	Greensprings Plantation	Greensprings Plantation P-1
4740600001	130 LAKESIDE CIRCLE	7/30/2018	Soil erosion problem	OPEN	The Colony	Jamestown Colony Resub.
4810400016B	1407 JAMESTOWN ROAD	7/30/2018	Drainage Problem	OPEN	Bozarth & Mahone	Jamestown Rd
3824100110	5432 CENTER STREET	7/30/2018	General/Engineering questions	CLOSED	New Town	New Town Parcel F Block 5 Lots
3220200001	100 WILLIAMS CIRCLE	7/31/2018	Drainage Problem	CLOSED	Williams Circle	Wallace Parker
3230800011	406 HEMPSTEAD ROAD	7/31/2018	General/Engineering questions	OPEN	Windsor Forest	Windsor Forest
2220200006	135 BUSH SPRINGS RD	8/1/2018	Drainage Problem	OPEN	Bush Springs	Toano
2310200032	203 CRESCENT DRIVE	8/1/2018	Potential Violation	OPEN	Oakland	WdInd Frms/Mry Oaks/Dwood Hill
1220600171	3475 FREDERICK DR	8/2/2018	Soil erosion problem	CLOSED	Fenwick Hills	Fenwick Hills
4740600001	130 LAKESIDE CIRCLE	7/31/2018	Drainage and Soil Erosion Problem	OPEN	The Colony	Jamestown Colony Resub.
4610400220	220 BUNKER ARCH	8/2/2018	Inspection questions/issues	CLOSED	Fairway Villas	Fairway Villas
3220100030A	194 CLARK LANE	8/2/2018	Drainage Problem	CLOSED	Acreage Lots - Powhatan	Wallace Parker
5920100014	8978 POCAHONTAS TR	8/3/2018	Drainage Problem	OPEN	Whispering Pines	B-1 (5-19 acres)
2430800001E	4645 REVOLUTIONARY WAY	8/3/2018	General/Engineering questions	OPEN	Liberty Crossing	Common Area - HOA or OA
5020500004	20 WALLACE ROAD	8/3/2018	Drainage Problem	CLOSED	Colonial Terrace	Solomon Orange/Adjacent Acreag
4620100019B	4299 JOHN TYLER HWY	8/6/2018	Drainage Problem	OPEN	Acreage Lots - Berkeley	Jamestown Area Small Acreage
3110300046	118 WILLIAMSON DR	8/9/2018	Drainage and Soil Erosion Problem	OPEN	Forest Glen	Forest Glen
4830800026	5568 BRIXTON ROAD	8/9/2018	Potential Violation	OPEN	Kensington Woods	Kensington Woods
4810400016B	1407 JAMESTOWN ROAD	8/10/2018	Drainage Problem	CLOSED	Bozarth & Mahone	Jamestown Rd
2320400005	112 POWHATAN DRIVE	8/13/2018	General/Engineering questions	OPEN	Norge Court	Kristiansand (Original)
4510400105	108 GREENBRIER	8/13/2018	RPA questions/issues	OPEN	Shellbank Woods	Shellbank Woods - Interior
3120400056	4204 BIRDELLA DRIVE	8/13/2018	Soil erosion problem	CLOSED	Adam's Hunt	Adam's Hunt

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4130100002	1 KIRKLAND COURT	8/14/2018		CLOSED	Stonegate	B-1 (5-19 acres)
3120400056	4204 BIRDELLA DRIVE	8/15/2018	Soil erosion problem	OPEN	Adam's Hunt	Adam's Hunt
4740600001	130 LAKESIDE CIRCLE	8/15/2018	General/Engineering questions	CLOSED	The Colony	Jamestown Colony Resub.
4830800026	5568 BRIXTON ROAD	8/15/2018	Potential Violation	OPEN	Kensington Woods	Kensington Woods
3831500040	3764 LAKE POWHATAN	8/15/2018	Drainage Problem	OPEN	Powhatan Place	Powhatan Place
5920200021	117 INDIAN CIRCLE	8/16/2018	Drainage and Soil Erosion Probl	OPEN	Poplar Hall	Poplar Hall
3710800135	232 ROYAL DUBLIN	8/16/2018	Soil erosion problem	OPEN	Ford's Colony	Ford's Colony (Western Gailes
3720600042	116 STOWE	8/16/2018	Potential Violation	OPEN	Ford's Colony	Ford's Colony (Brigadoon,Oak
1240300001	136 CHESAPEAKE AVE	8/20/2018	General/Engineering questions	OPEN	Toano Terrace	Toano
3040200167	117 ROYAL ST GEORGES	8/20/2018	Drainage and Soil Erosion Probl	OPEN	Ford's Colony	Ford's Colony-Golf Lots
2321100001B	7575 RICHMOND ROAD	8/23/2018	Tree removal	CLOSED	Acreage Lots - Stonehouse	MU (5-19 acres)
4910250003	109 CROWNPOINT ROAD	8/23/2018	Drainage Problem	CLOSED	Kingspoint	Kingspoint
3620300166	116 ROYAL ST GEORGES	8/27/2018	Drainage Problem	OPEN	Ford's Colony	Ford's Colony-Golf Lots
4830400008	2733 PERSIMMON PLACE	8/14/2018	Drainage and Soil Erosion Probl	OPEN	Rolling Woods	Rolling Woods
530700007	9305 STAFFORD LN	8/28/2018	Soil erosion problem	OPEN	Stonehouse Glen	Stonehouse Glen
3330600019	132 KING HENRY WAY	8/29/2018	Soil erosion problem	OPEN	Chisel Run	The Hamlet
3824100064	4412 OLIVE DRIVE	8/30/2018	Drainage and Soil Erosion Probl	OPEN	New Town	New Town Parcel F Block 5 Lots
4830800026	5568 BRIXTON ROAD	8/30/2018	Potential Violation	OPEN	Kensington Woods	Kensington Woods
3620500011	4604 EDENDERRY	9/4/2018	Inspection questions/issues	OPEN	Westport Ford's Colony	Ford's Colony (Westport)
4640203402	3402 LONDON COMPANY WAY	9/4/2018	General/Engineering questions	OPEN	Jamestown 1607	Jamestown 1607
5030300025	112 COLONEL'S WAY	9/5/2018	RPA questions/issues	OPEN	Kingsmill	Tutter's Neck (KM)
1220900401	3609 HICKORY NECK BLVD	9/10/2018	BMP questions/issues	CLOSED	White Hall	White Hall (SFD)
4830800026	5568 BRIXTON ROAD	9/10/2018	Potential Violation	OPEN	Kensington Woods	Kensington Woods
3230100007B	105 LAFAYETTE BLVD	9/10/2018	Drainage Problem	CLOSED	Lafayette Manor Apts	R-5 (1-4 acres)
4940200079	113 WILLIAM ALLEN	9/11/2018	Drainage Problem	OPEN	Kingsmill	Tutter's Neck (KM)
4812100002	2955 LAKE POWELL RD	9/11/2018	Drainage Problem	CLOSED	Larson's Lane	Birchwood - Birchwood Park
4130100002	1 KIRKLAND COURT	9/12/2018	Soil erosion problem	OPEN	Stonegate	B-1 (5-19 acres)
3241400069	5541 SCOTT'S POND DRIVE	9/12/2018	Drainage and Soil Erosion Probl	CLOSED	Scott's Pond	Scott's Pond
4741300128	4708 PELEG'S WAY	9/13/2018	BMP questions/issues	OPEN	Peleg's Point	Peleg's Point
1220300026	106 JOANNE COURT	9/14/2018	Drainage and Soil Erosion Probl	OPEN	Temple Hall Estates	Temple Hall Estates
4640500008	101 HALSTEAD LANE	9/18/2018	Inspection questions/issues	OPEN	St. George's Hundred	St Grg's Hnd-dc 10,12,14,16,1
5040100002C	KINGSMILL ROAD	9/19/2018	Potential Violation	OPEN	Kingsmill	R-4 (100 plus acres)
5040100009A	KINGSMILL ROAD	9/19/2018	Potential Violation	OPEN	Kingsmill	R4 (1-4 acres)
5040100013A	KINGSMILL ROAD	9/19/2018	Potential Violation	OPEN	Kingsmill	R4 (1-4 acres)
5040100013B	KINGSMILL ROAD	9/19/2018	Potential Violation	OPEN	Kingsmill	R4 (1-4 acres)
5040100013C	KINGSMILL ROAD	9/19/2018	Potential Violation	OPEN	Kingsmill	R4 (1-4 acres)
5130100009C	KINGSMILL ROAD	9/19/2018	Potential Violation	OPEN	Kingsmill	Golf Course Land
2220100023A	7801 RICHMOND ROAD	9/19/2018	General/Engineering questions	OPEN	Acreage Lots - Stonehouse	Stonehouse Area Small Acreage
4630500002	3192 DERBY LANE	9/20/2018	Drainage Problem	OPEN	Drummond's Quarter on the James	Drummond's Field
4540200183	113 BARROWS MOUNT	9/24/2018	Drainage Problem	OPEN	First Colony	First Colony (Interior)
4940200079	113 WILLIAM ALLEN	9/24/2018	Drainage Problem	OPEN	Kingsmill	Tutter's Neck (KM)
4640800010	2561 WILLIAM TANKARD DR	9/26/2018	General/Engineering questions	OPEN	Landfall Village	Landfall at Jamestown P-1
3221000354	4809 GLENCOE WAY	9/26/2018	Soil erosion problem	OPEN	Villages at Westminster	Villages of Westminster (New)
2210500037	7143 CHURCH LANE	9/26/2018	Drainage and Soil Erosion Probl	OPEN	Lake Toano Estates	Lake Toano Estates (Pond)
5920100001	10 GRAY GABLES DR	9/27/2018	General/Engineering questions	OPEN	Country Village MHP	R-8 (20-99 acres)
4540200185	109 BARROWS MOUNT	9/27/2018	Drainage Problem	OPEN	First Colony	First Colony (Interior)

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3131600011	3800 WAR HILL GREEN	9/27/2018	Drainage Problem	OPEN	War Hill Green	War Hill Green
4720700022	221 OXFORD ROAD	9/28/2018	Tree removal	OPEN	Druid Hills	Druid Hills
4830900119	2815 SKEWER COURT	10/1/2018	Drainage Problem	OPEN	Lake Powell Forest	Lake Powell Forest
4710100111	4511 JOHN TYLER HGWY	10/1/2018	General/Engineering questions	OPEN	Governors Green	B-1 (1-5 acres)
2210500043	7223 CHURCH LANE	10/1/2018	Drainage Problem	CLOSED	Lake Toano Estates	Lake Toano Estates (Pond)
3221000026	6268 TEWKESBURY WAY	10/3/2018	Drainage and Soil Erosion Problem	CLOSED	Villages at Westminster	Villages of Westminster (Old)
3130800001	101 ST ANDREWS DR	10/4/2018	General/Engineering questions	OPEN	Ford's Colony	R-4 (5-19 acres)
4741300001B	PELEG'S WAY	10/4/2018	BMP questions/issues	OPEN	Peleg's Point	Common Area - STILL TAXABLE
2320400033	123 POWHATAN DRIVE	9/24/2018		OPEN	Norge Court	Kristiansand (Original)
1330800196	3915 BOURNEMOUTH BEND	10/5/2018	BMP questions/issues	OPEN	Wellington	Wellington
4130300019	125 WICKRE STREET	9/20/2018	Drainage and Soil Erosion Problem	OPEN	Magruder View	Magruder Heights
1220900186	3409 LINDSEY LANE	10/9/2018	Soil erosion problem	OPEN	White Hall	White Hall (SFD)
3110900071	3900 BLUE RIDGE COURT	10/9/2018	Drainage Problem	OPEN	Longhill Station	Longhill Station 1A & 1B
2341900037	4132 WINTHROP CIRCLE	10/9/2018	Drainage Problem	OPEN	Colonial Heritage	Colonial Heritage (Detached)
3120300039	5520 NORTH MALLARD R	10/11/2018	Tree removal	OPEN	Mallard Hill	Warhill (aka Mallard Hill)
2330400078	3898 ISAAC CIRCLE	10/15/2018	Drainage Problem	OPEN	Colonial Heritage	Colonial Heritage (Detached)
3741700012	4109 COOPER NACE	10/15/2018	Potential Violation	OPEN	The Settlement at Powhatan Creek	Settlement at Powhatan (Att)
1640600030	202 RIVERVIEW PLANT DR	10/15/2018	Tree removal	CLOSED	Riverview Plantation	Riverview Plant(Interior Lots)
4810400014B	1413 A JAMESTOWN ROAD	10/15/2018	Inspection questions/issues	OPEN	Bozarth & Mahone	Jamestown Rd
1220600093	3501 WINSLOW COURT	10/15/2018	Drainage and Soil Erosion Problem	OPEN	Fenwick Hills	Fenwick Hills
4711900018	328 MILL STREAM WAY	10/16/2018	Tree removal	CLOSED	Settler's Mill	Settler's Mill
2310200017	122 CRESCENT DRIVE	10/18/2018	Soil erosion problem	OPEN	Oakland	WdInd Frms/Mry Oaks/Dwood Hill
5040300019	19 WHITTAKERS MILL	10/18/2018	RPA questions/issues	CLOSED	Kingsmill	Whittakers Mill (KM)
0940100008C	3336 N RIVERSIDE DR	10/18/2018	General/Engineering questions	OPEN	Eagle Tree Farms	Donald Hazelwood Sub.
2430100038	6401 RICHMOND ROAD	10/24/2018	General/Engineering questions	CLOSED	Williamsburg Outlet Mall	M-1 (5-19 acres)
4520100007	125 PASBEHEGH DRIVE	10/24/2018	General/Engineering questions	OPEN	First Colony	Common Area - HOA or OA
1240100015	150 INDUSTRIAL BLVD	10/24/2018	General/Engineering questions	OPEN	Hankins Industrial Park	M-2 (20-99 acres)
1240100031	7804 RICHMOND ROAD	10/24/2018	General/Engineering questions	OPEN	Acreage Lots - Stonehouse	M-1 (1-4 acres)
4621100036	3433 HUNTER'S RIDGE	10/29/2018	Soil erosion problem	CLOSED	Powhatan Crossing	Powhatan Crossing
2330300018	6458 ISABELLA DRIVE	10/29/2018	Tree removal	OPEN	Colonial Heritage	Colonial Heritage (Detached)
1220600093	3501 WINSLOW COURT	11/1/2018	Soil erosion problem	OPEN	Fenwick Hills	Fenwick Hills
4140400012	904 TYLER DRIVE	11/1/2018	Tree removal	OPEN	James Terrace	James Terrace
3230700001	204 SHEFFIELD ROAD	11/2/2018	Drainage Problem	CLOSED	Windsor Forest	Windsor Forest
5031000108	108 MOODY'S RUN	11/2/2018	General/Engineering questions	OPEN	Kingsmill	Moody's Run
4810700037	100 SHORE DRIVE	11/8/2018	General/Engineering questions	OPEN	Birchwood Park & Marlboro	Birchwood - Birchwood Park
3310100006A	119 CLARK LANE	11/19/2018	Drainage Problem	CLOSED	Acreage Lots - Powhatan	Wallace Parker
3140400001	4225 LONGHILL ROAD	11/19/2018	BMP questions/issues	OPEN	Longhill Gate	Common Area - HOA or OA
4741300160	2223 MOONLIGHT POINT	11/19/2018	Potential Violation	OPEN	Peleg's Point	Peleg's Point
5031000100	100 MOODY'S RUN	11/19/2018	Drainage Problem	OPEN	Kingsmill	Moody's Run
4741300160	2223 MOONLIGHT POINT	11/19/2018	Potential Violation	OPEN	Peleg's Point	Peleg's Point
5910100002	8710 POCAHONTAS TR	11/20/2018	Drainage Problem	CLOSED	Acreage Lots - Roberts	Alex Harwood/Jackson Terrace/W
4720210003	121 DUER DRIVE	11/26/2018	Drainage Problem	CLOSED	Indigo Park	Indigo Pk-Indigo Dam-Gilley
3220100089A	102 NEIGHBORS DRIVE	11/26/2018	Inspection questions/issues	OPEN	Forest Heights/Neighbors Dr	Wallace Parker
3330100005E	5537 RICHMOND ROAD	11/27/2018	Drainage Problem	OPEN	Acreage Lots - Jamestown	B-1 (1-5 acres)
530700016	9417 ASHLOCK CT	11/27/2018	Drainage and Soil Erosion Problem	CLOSED	Stonehouse Glen	Stonehouse Glen
4711900018	328 MILL STREAM WAY	11/27/2018	BMP questions/issues	CLOSED	Settler's Mill	Settler's Mill

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4830200007	5845 HAWTHORN LANE	11/28/2018	RPA questions/issues	CLOSED	Rolling Woods	Rolling Woods
5230200026A	138 JACKSON STREET	11/29/2018	Inspection questions/issues	CLOSED	Harwood	Alex Harwood/Jackson Terrace/W
3710800135	232 ROYAL DUBLIN	11/29/2018	Soil erosion problem	OPEN	Ford's Colony	Ford's Colony (Western Gailes
3221200153	5343 ROCKINGHAM DRIVE	12/6/2018	RPA questions/issues	OPEN	Scott's Pond	Scott's Pond
4520300012	104 EVERGREEN WAY	11/27/2018	Drainage and Soil Erosion Probl	CLOSED	Shellbank Woods	Shellbank Woods - Interior
1320100015	4318 WARE CREEK ROAD	12/7/2018	Inspection questions/issues	CLOSED	Acreage Lots - Stonehouse	Croaker Area Small Ac. Parcels
1340100035	146 MAXTON LANE	12/7/2018	BMP questions/issues	CLOSED	Acreage Lots - Stonehouse	R-8 (20-99 acres)
3810300099	109 LINDRICK	12/11/2018	Inspection questions/issues	OPEN	Ford's Colony	Ford's Colony (Interior Lots,
4811700004	5507 ROLLING WDS DR	12/18/2018		OPEN	Rolling Woods	Rolling Woods
4811700004	5507 ROLLING WDS DR	12/18/2018		OPEN	Rolling Woods	Rolling Woods
4811700004	5507 ROLLING WDS DR	12/18/2018	Drainage and Soil Erosion Probl	OPEN	Rolling Woods	Rolling Woods
4540200056	166 THE MAINE	12/19/2018	Tree removal	OPEN	First Colony	RiverFront(FC-Shllbnk-Drmmds)
1331300010	3011 MEADOWCREST TRAIL	12/18/2018	Drainage Problem	CLOSED	Windsor Ridge	Wellington
4620300016	300 ST GEORGES BLVD	12/19/2018	Drainage and Soil Erosion Probl	CLOSED	St. George's Hundred	St. Georges Hundred - dc 3-8
2220200014	189 BUSH SPRINGS RD	12/20/2018	Illicit Discharge	OPEN	Bush Springs	Toano
3240200034	108 KING WILLIAM DR	12/20/2018	Drainage Problem	OPEN	Ewell Hall	Ewell Hall
4520300018	116 EVERGREEN WAY	1/2/2019	Drainage and Soil Erosion Probl	CLOSED	Shellbank Woods	Shellbank Woods - Interior
3841210001	4003 GOVERNOR'S SQUARE #1	1/2/2019	Potential Violation	CLOSED	Governor's Square	Governor's Square
1310100008F	92 SAND HILL ROAD	1/3/2019	Tree removal	CLOSED	Acreage Lots - Stonehouse	Stonehouse Area Small Acreage
3221200267	5705 PETER VAN WIRT WAY	1/3/2019	Soil erosion problem	OPEN	Scott's Pond	Scott's Pond
4610100002D	3751 JOHN TYLER HGWY	1/7/2019		OPEN	Acreage Lots - Berkeley	R1 Vacant (20-99 acres)
3230300005	1 SHEFFIELD ROAD	1/7/2019	Drainage Problem	CLOSED	Windsor Forest	Windsor Forest
1730200003	167 RIVERVIEW PLANT DR	1/7/2019	Drainage Problem	OPEN	Riverview Plantation	Chickahominy Haven (River)
2410200005	109 WILDERNESS LANE	1/7/2019	Drainage Problem	OPEN	Pineridge	Lake Toano Estates (Interior)
4130300025A	107 WICKRE STREET	1/9/2019	General/Engineering questions	OPEN	Magruder View	B-1 (1-5 acres)
4630400010	3242 DERBY LANE	1/11/2019	Drainage Problem	OPEN	Drummond's Field	Drummond's Field
3232400010	109 SETON HILL ROAD	1/11/2019	Drainage and Soil Erosion Probl	CLOSED	Windsor Forest	Windsor Forest
4730500035	117 GODSPEED LANE	1/14/2019	Drainage Problem	CLOSED	Powhatan Shores	Powhatan Shores (Waterfront)
4940200074	113 CLAREMONT	1/16/2019	Inspection questions/issues	OPEN	Kingsmill	Tutter's Neck (KM)
1540200004	8148 WRENFIELD DRIVE	1/23/2019	Tree removal	OPEN	Wexford Hills	Wexford Hills
4940300183	137 WILLIAM RICHMOND	1/23/2019	Tree removal	CLOSED	Kingsmill	Fairfax Woods
3810300095	106 LOTHIAN	1/24/2019	Drainage and Soil Erosion Probl	CLOSED	Ford's Colony	Ford's Colony (Interior Lots,
3740700001	105 SHIELD'S POYNT	1/24/2019	Drainage Problem	CLOSED	Powhatan Secondary	Powhatan Secondary
3110500089	220 WALKER DRIVE	1/29/2019	Drainage Problem	CLOSED	Forest Glen	Forest Glen
5510300054	2028 BACK RIVER LANE	1/30/2019	Drainage and Soil Erosion Probl	OPEN	Page Landing	Page Landing
5920500007	9200 COMMERCE BLVD	1/31/2019	Tree removal	OPEN	Skiffes Creek Industrial Park	M-2 (1-4 acres)
1120600008	2628 MEADOW LAKE DRIVE	2/4/2019	RPA questions/issues	OPEN	Meadow Lake	WdInd Frms/Mry Oaks/Dwood Hill
4410600010	3096 NATHANIEL'S GREEN	2/5/2019	Tree removal	CLOSED	Governors Land	River Oaks No. @ TGL
3810800041	112 STOWE	2/7/2019	Drainage Problem	OPEN	Ford's Colony	Ford's Colony (Brigadoon,Oak
3630200140	4009 SUNRISE COURT	2/7/2019	RPA questions/issues	OPEN	Greensprings West	Greensprings West
4730500067	112 LANDS END DRIVE	2/7/2019	Tree removal	OPEN	Powhatan Shores	Powhatan Shores (Waterfront)
5041900111	111 WAREHAM'S POINT	2/12/2019	RPA questions/issues	OPEN	Kingsmill	Wareham's Point
4620700026	117 ARENA STREET	2/12/2019	Drainage and Soil Erosion Probl	OPEN	St. George's Hundred	St. Georges Hundred - dc 3-8
0740100011A	9219 CROAKER ROAD	2/13/2019	Potential Violation	OPEN	Acreage Lots - Stonehouse	Croaker Area Small Ac. Parcels
4710800066	2905 RICHARD GROVE N	2/14/2019	General/Engineering questions	OPEN	Chanco's Grant	Chanco's Grant
4810700097	128 SHORE DRIVE	2/14/2019	General/Engineering questions	CLOSED	Birchwood Park & Marlboro	Birchwood - Birchwood Park

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1120700003	8739 RICHMOND ROAD	2/19/2019	BMP questions/issues	OPEN	Hickory Hill	WdInd Frms/Mry Oaks/Dwood Hill
3811000020	112 DUNES	2/19/2019	RPA questions/issues	CLOSED	Ford's Colony	Ford's Colony (Interior Lots,
3110500094	215 WALKER DRIVE	2/19/2019	Drainage and Soil Erosion Probl	CLOSED	Forest Glen	Forest Glen
5130200006	120 JOHN WICKHAM	2/22/2019	Tree removal	CLOSED	Kingsmill	Wickham's Grant (KM)
5010300113	116 ALEXANDER PLACE	2/22/2019	RPA questions/issues	CLOSED	Kingsmill	Southall Quarter (KM)
5010600061	109 JUBAL PLACE	2/28/2019	Tree removal	CLOSED	Kingsmill	Tazewell's Hundred (KM)
5030400100	741 E TAZEVELLS WAY	3/1/2019	RPA questions/issues	OPEN	Kingsmill	Tazewell's Hundred (KM)
4810700097	128 SHORE DRIVE	3/18/2019	RPA questions/issues	OPEN	Birchwood Park & Marlboro	Birchwood - Birchwood Park
4620300025	205 ST GEORGES BLVD	3/20/2019	Potential Violation	OPEN	St. George's Hundred	St. Georges Hundred - dc 3-8
3741600055	4193 JOHN RICHARDSON LN	3/22/2019	Drainage Problem	OPEN	Powhatan Secondary	Powhatan Secondary (Colonies)
4310100004	1400 TWO RIVERS ROAD	3/28/2019	RPA questions/issues	CLOSED	Governors Land	Golf Course Land
4930260015	112 PINEPOINT ROAD	3/28/2019	Drainage and Soil Erosion Probl	OPEN	Kingspoint	Kingspoint
3330100011D	5493 MOORETOWN ROAD	4/1/2019	BMP questions/issues	OPEN	Acreage Lots - Powhatan	M-1 (1-4 acres)
4320300043	1908 WHITTLE'S WOOD RD	4/2/2019	Drainage Problem	OPEN	Governors Land	River Oaks No. @ TGL
4140500008	903 FOLEY DRIVE	4/4/2019	Drainage Problem	CLOSED	James Terrace	James Terrace
3630300013	3951 THORNGATE DRIVE	4/4/2019	Drainage Problem	CLOSED	Greensprings West	Greensprings West
3101000001	338 RACEFIELD DRIVE	4/5/2019		OPEN	Acreage Lots - Stonehouse	A-1 Vacant (100 plus acres)
3640300101	3801 GEORGE MASON	4/8/2019	Drainage Problem	OPEN	Greensprings Plantation	Greensprings Plantation P-1
4720100016A	4821 JOHN TYLER HGWY	4/8/2019	Potential Violation	OPEN	Acreage Lots - Berkeley	Jamestown Area Small Acreage
5030300016	101 THORPE'S PARISH	4/9/2019	Tree removal	OPEN	Kingsmill	Tutter's Neck (KM)
3131300013	5435 WILLIAM LUDWELL LEE	4/11/2019		CLOSED	Mulberry Place	Mulberry Place
1330800068	8405 DOWN PATRICK WAY	4/11/2019	Drainage Problem	CLOSED	Wellington	Wellington
3131000015	112 SUGAR BUSH	4/12/2019	RPA questions/issues	CLOSED	Ford's Colony	Ford's Colony (Interior Lots,
4930260017	116 PINEPOINT ROAD	4/15/2019	Drainage Problem	OPEN	Kingspoint	Kingspoint
4720100016	4815 JOHN TYLER HGWY	4/8/2019	Potential Violation	CLOSED	Acreage Lots - Berkeley	Jamestown Area Small Acreage
4721700012	4824 BRISTOL CIRCLE	4/15/2019	Drainage Problem	CLOSED	Westray Downs	Westray Downs
3710800104	201 PANMURE	4/18/2019	Inspection questions/issues	OPEN	Ford's Colony	Ford's Colony (Western Gables
4940300099	236 WILLIAM BARKSDALE	4/19/2019	RPA questions/issues	OPEN	Kingsmill	Fairfax Woods
7201000004	9924 SYCAMORE LANDING RD	4/19/2019	Potential Violation	OPEN	Acreage Lots - Stonehouse	Johnson's Meadow
3232300010	145 TEAL WAY	4/23/2019	Drainage and Soil Erosion Probl	OPEN	Season's Trace	SeasonsTrace & 2 lots (detach)
4620300006	205 ROBERTSON ST	4/23/2019	Drainage Problem	OPEN	St. George's Hundred	St. Georges Hundred - dc 3-8
4621200012	120 WELLINGTON CIR	4/23/2019	Drainage Problem	CLOSED	St. George's Hundred	St Grg's Hnd-dc 10,12,14,16,1
4720900012A	105 RICH NECK ROAD	4/24/2019	Drainage Problem	CLOSED	Hollybrook	Kingswood
511400038	9915 PERCH TREE LANE	4/1/2019	Drainage Problem	CLOSED	Stonehouse	Lisburn at Stonehouse S-5A SH
5040900113	113 HARROP'S GLEN	4/25/2019	Drainage Problem	OPEN	Kingsmill	Harrop's Glen
3840100055	5220 MONTICELLO AVENUE	4/26/2019	Drainage and Soil Erosion Probl	OPEN	Settler's Market at New Town	MU (1-4 acres)
4621100036	3433 HUNTER'S RIDGE	4/26/2019	Drainage Problem	OPEN	Powhatan Crossing	Powhatan Crossing
4830200027	2729 LINDEN LANE	4/29/2019	BMP questions/issues	OPEN	Rolling Woods	Rolling Woods
5030300019	104 COLONEL'S WAY	4/30/2019	RPA questions/issues	OPEN	Kingsmill	Tutter's Neck (KM)
4140600011	711 ADAMS ROAD	4/30/2019	Drainage Problem	OPEN	Colonial Park	Colonial Park
4720810018	122 DOVER ROAD	5/2/2019	Drainage Problem	OPEN	Kingswood	Kingswood - Gilliam's Woods
3120600060	4225 WEDGEWOOD DRIVE	5/6/2019	Drainage and Soil Erosion Probl	CLOSED	Colonial Heritage	Colonial Heritage (Detached)
1331300010	3011 MEADOWCREST TRAIL	5/6/2019	Drainage Problem	CLOSED	Windsor Ridge	Wellington
4710100067	3021 IRONBOUND ROAD	5/9/2019		OPEN	Acreage Lots - Berkeley	Jamestown Area Small Acreage
3910100131	3800 TREYBURN DRIVE	5/13/2019	Tree removal	OPEN	Chambrel	PUD-R (20-99 acres)
520600036	9991 MILL POND RUN	5/14/2019	Inspection questions/issues	OPEN	Stonehouse	Stonehouse-All sect.except OH

Neighborhood Assistance Requests
Reporting Year 2018-2019

PIN	Address	Call Date	Type of Request	Status	Subdivision Name	Additional Info
3221000103	6256 GLENWILTON LANE	5/14/2019	Drainage Problem	CLOSED	Villages at Westminster	Villages of Westminster (Old)
2430800163	4612 MINUTEMEN WAY	5/17/2019		OPEN	Liberty Crossing	Liberty Crossing
4321500005	1923 NORTH FOWLER'S CLOSE	5/17/2019	Tree removal	CLOSED	Governors Land	River Oaks No. @ TGL
4840100003	154 WALTRIP LANE	5/20/2019	General/Engineering questions	CLOSED	Acreage Lots - Roberts	Jamestown Area Small Acreage
720400007	10025 SYCAMORE LANDING RD	5/22/2019	RPA questions/issues	CLOSED	William Lee Tract	Johnson's Meadow
3232300006	125 TEAL WAY	5/22/2019	Drainage Problem	CLOSED	Season's Trace	SeasonsTrace & 2 lots (detach)
4640800015	2529 WILLIAM TANKARD DR	5/24/2019	RPA questions/issues	CLOSED	Landfall Village	Landfall at Jamestown P-1
3221000057	6224 WEATHERSFIELD WAY	5/24/2019	Drainage and Soil Erosion Problem	CLOSED	Villages at Westminster	Villages of Westminster (Old)
4720700064	114 DRUID DRIVE	5/24/2019	Drainage and Soil Erosion Problem	CLOSED	Druid Hills	Druid Hills
1120100001	180 LEISURE ROAD	5/24/2019	Illicit Discharge	OPEN	Acreage Lots - Stonehouse	A-1 Vacant (20-99 acres)
5230200014	209 RAILROAD STREET	6/3/2019	RPA questions/issues	CLOSED	Harwood	Alex Harwood/Jackson Terrace/W
1340700006	91 MEADOWCREST TR	6/3/2019	Drainage Problem	OPEN	Mirror Lakes Estates	Mirror Lake Estates
3240100028A	5252 OLDE TOWNE ROAD	5/30/2019	Drainage Problem	CLOSED	Acreage Lots - Jamestown	LB (Less than 1 acre)
3910400009	208 DEBRA DRIVE	6/4/2019	Drainage Problem	CLOSED	Belen & Carriage Heights, Parker	Wallace Parker
3910400009	208 DEBRA DRIVE	6/4/2019	Drainage Problem	CLOSED	Belen & Carriage Heights, Parker	Wallace Parker
3720700025	105 MEADOWBROOK	6/4/2019	Drainage Problem	OPEN	Ford's Colony	Ford's Colony (Interior Lots,
4410200057	3001 TRAVIS POND RD	6/6/2019	Tree removal	CLOSED	Governors Land	River Oaks No. @ TGL
4710400027	2908 RICHARD PACE N	6/7/2019	Drainage Problem	CLOSED	Chanco's Grant	Chanco's Grant
31402H0028	9 POPELEY COURT	6/7/2019	Drainage Problem	CLOSED	Ford's Colony	Ford's Colony-Golf Lots
3741200056	200 GEORGE WYTHE LANE	6/7/2019	Drainage Problem	CLOSED	Powhatan Woods	Powhatan Woods
3232500046	103 ST ANNES	6/7/2019	Drainage Problem	CLOSED	Ford's Colony	Ford's Colony (Interior Lots,
1910500057	4052 S RIVERSIDE DR	6/8/2019	Drainage Problem	CLOSED	Chickahominy Haven	Chickahominy Haven (Int Lots)
1910500057	4052 S RIVERSIDE DR	6/10/2019		CLOSED	Chickahominy Haven	Chickahominy Haven (Int Lots)
1910500057	4052 S RIVERSIDE DR	6/11/2019	Drainage Problem	CLOSED	Chickahominy Haven	Chickahominy Haven (Int Lots)
1910500057	4052 S RIVERSIDE DR	6/11/2019	Drainage Problem	CLOSED	Chickahominy Haven	Chickahominy Haven (Int Lots)
1911300003	3021 THE POINT DRIVE	6/11/2019	Drainage Problem	OPEN	Chickahominy Haven	Chickahominy Haven (Int Lots)
5230400005C	8690 POCAHONTAS TR	6/12/2019	Drainage Problem	CLOSED	Wynn's	Grove/Wynn's (incl. Vernon Ro
1220600150	3436 COLONY MILL ROAD	6/13/2019	General/Engineering questions	OPEN	Fenwick Hills	Fenwick Hills
3841730010	4964 BURNLEY DRIVE	6/14/2019	Drainage Problem	OPEN	Mill Creek Landing	Mill Creek Landing
4710800079	2904 RICHARD BUCK N	6/17/2019	Drainage and Soil Erosion Problem	OPEN	Chanco's Grant	Chanco's Grant
4910220015	103 CROWNPOINT ROAD	6/17/2019	Drainage Problem	CLOSED	Kingspoint	Kingspoint
510600013	3111 CIDER HOUSE ROAD	6/17/2019	BMP questions/issues	OPEN	Stonehouse	Resub P-2 Orchd Hill at Stnhse
4511000001	2801 BENNETT'S POND ROAD	6/20/2019	General/Engineering questions	OPEN	Governors Land	River Oaks No. @ TGL
1341000243	4076 DUNBARTON CIRCLE	6/25/2019	Tree removal	OPEN	Wellington	Wellington
4510400080	127 JAMESWOOD	6/25/2019	Illicit Discharge	CLOSED	Shellbank Woods	Shellbank Woods - Interior
510600021	3079 CIDER HOUSE ROAD	1/25/2019	Drainage and Soil Erosion Problem	OPEN	Stonehouse	Resub P-2 Orchd Hill at Stnhse
4812100002	2955 LAKE POWELL RD	6/26/2019	Drainage Problem	OPEN	Larson's Lane	Birchwood - Birchwood Park
1220900162	3320 GEDDY TERRACE	6/17/2019	Drainage Problem	CLOSED	White Hall	White Hall (SFD)
4140100004	711 MOSBY DRIVE	5/20/2019	Drainage Problem	OPEN	James Terrace	James Terrace
4721100001	113 RICH NECK ROAD	3/11/2019	Drainage Problem	CLOSED	Bozarth & Mahone	Rchnk-LkePowell-Ironbnd-SndyBy
2320600179	2 KROKEN COURT	3/25/2019	Drainage Problem	CLOSED	Kristiansand	Kristiansand (Newer)
4710100022B	3280 IRONBOUND ROAD	6/27/2019	Drainage Problem	OPEN	Acreage Lots - Jamestown	B-1 (1-5 acres)
3131300001	3705 MULBERRY LANE	2/26/2019	Drainage and Soil Erosion Problem	CLOSED	Mulberry Place	Mulberry Place

Part C – Section 3

**Minimum Control Measure #3
Illicit Discharge Detection and Elimination**

James City County Compliance Summary Statement

MCM3 Illicit Discharge Detection and Elimination

Permit Reporting Year 1 - July 1, 2018 - June 30, 2019

The James City County Illicit Discharge Detection and Elimination (IDDE) Program is an ongoing effort to perform routine inspections, respond to citizen concerns, and investigate possible illegal discharges into surface waters. A total of three (3) IDDE concerns were investigated and addressed during the 2018-2019 reporting year.

Highlights of the County's IDDE program in the 2018-2019 reporting year include:

- Up-to-date storm sewer mapping
- Internal audits of high-priority County facilities
- 53 dry weather screenings
- Reported 26 Hazmat incidences to DEQ
- Reported 21 SSORS overflows, 12 associated with wet weather conditions

A key part of the IDDE program in this permit cycle has been the on-going work of the Pollution Prevention Team. This collaboration has allowed staff members in different departments who work with environmentally hazardous materials to enhance relationships and work together to develop protocols and reporting methods. This team effort is also an important aspect of MCM6 – Pollution Prevention and Good Housekeeping.

The James City Service Authority (JCSA) continues to fulfil its obligations under the DEQ approved Management, Operations and Maintenance (MOM) Program. Information from JCSA regarding sanitary sewer overflow reporting is provided in this section of the annual report.

A GIS-compatible shapefile of the County's MS4 map as described in the MS4 permit (Part I E 3 a) was submitted to the DEQ on June 28, 2019 and emailed confirmation of receipt was received on June 28, 2018. The MS4 map and associated information reflected changes to the MS4 occurring on or before June 30, 2019.

Part C – Section 3

**Minimum Control Measure #3
Illicit Discharge Detection and Elimination**

Exhibits

Reporting Year 2018 - 2019 Dry Weather Screening

James City County

OutfallID	Material	Size	Comm Name	Type	Shape1	Submerged	Comm Name	UA 2010	UA 2000	HUC	map	DryWeath_1	Date Inspected
CC000001	RCP	36"	Institutional	Closed Pipe	Circular	No	Government Center	Yes	Yes	JL34	yes	Visual assessment completed - Clear - No action required	4/17/2019
CC000002	RCP	30"	Institutional	Closed Pipe	Circular	No	Government Center	Yes	Yes	JL34	yes	Visual assessment completed - Clear - No action required	4/17/2019
CC000003	RCP		Palmer Ln Complex		Circular		Palmer Lane Complex	Yes	Yes	JL34	yes	Visual assessment completed - Clear - No action required	4/17/2019
JR000001	RCP	12"	Institutional	Closed Pipe	Circular	Fully	Fire Station # 5 - 3201 Monticello Ave	Yes	No	JL30	yes	Visual assessment completed - Clear - No action required	4/17/2019
JR000002	RCP	12"	Institutional	Closed Pipe	Circular	Partial	Fire Station # 5 - 3201 Monticello Ave	Yes	No	JL30	yes	Visual assessment completed - Clear - No action required	4/17/2019
MC000001	HDPE	18'	School	Closed Pipe	Circular	Partial	Laurel Lane ES	Yes	Yes	JL33	yes	Visual assessment completed - Clear - No action required	NA
MC000002	HDPE	18"	School	Closed Pipe	Circular	Fully	Laurel Lane ES	Yes	Yes	JL33	yes	Visual assessment completed - Clear - No action required	NA
PC201001	HDPE	42"	School	Closed Pipe	Circular	Partial	Jamestown HS	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	5/17/2019
PC201002	RCP	30"	School	Closed Pipe	Circular	No	Jamestown HS	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	5/17/2019
PC201003	HDPE	36"	School	Closed Pipe	Circular	Partial	Jamestown HS	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	5/17/2019
PC201004	RCP	48"	School	unknown	unknown	unknown	Jamestown HS	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	5/17/2019
PC203001	RCP	12"	School	Closed Pipe	Circular	No	DJ Montague ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	5/17/2019

Reporting Year 2018 - 2019 Dry Weather Screening

James City County

OutfallID	Material	Size	Comm Name	Type	Shape1	Submerged	Comm Name	UA 2010	UA 2000	HUC	map	DryWeath_1	Date Inspected
PC203002	RCP	18"	School	Closed Pipe	Circular	No	DJ Montague ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	5/17/2019
PC205001	RCP	54"	School	Closed Pipe	Circular	Partial	Warhill HS	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC205002	HDPE	18"	School	Closed Pipe	Circular	No	Lafayette HS	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205003	HDPE	24"	Open Space	Closed Pipe	Circular	No	Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205004	HDPE	24"	Open Space	Closed Pipe	Circular	No	Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205005	CMP	48"	School	Closed Pipe	Circular	No	Lafayette HS	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205006	HDPE	24"	Open Space	Closed Pipe	Circular	No	Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205007	HDPE	15"	Open Space	Closed Pipe	Circular	No	Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205008	RCP	72"	Open Space	Closed Pipe	Circular	No	Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205009	Unknown	Unknown					Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205010	Unknown	Unknown					Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205011	Unknown	Unknown					Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205012	Unknown	Unknown					Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019

Submitted to DEQ September, 2019

Reporting Year 2018 - 2019 Dry Weather Screening

James City County

OutfallID	Material	Size	Comm Name	Type	Shape1	Submerged	Comm Name	UA 2010	UA 2000	HUC	map	DryWeath_1	Date Inspected
PC205013	Unknown	Unknown					Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205019	Unknown	Unknown					Warhill Sports Complex	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019
PC205021	HDPE	6"	Police Building	Closed Pipe	Circular		Police Headquarters	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	6/5/2019
PC205022	HDPE	6"	Police Building	Closed Pipe	Circular		Police Headquarters	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	6/5/2019
PC205023	HDPE	6"	Police Building	Closed Pipe	Circular		Police Headquarters	Yes	No	JL31	yes	Visual assessment completed - Clear - No action required	6/5/2019
PC205024											yes	Visual assessment completed - Clear - No action required	6/5/2019
PC206001	RCP	18'	Institutional	Closed Pipe	Circular	Partial	Human Services Building	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC207001	RCP	24"	Institutional	Closed Pipe	Circular	Partial	JCC Recreation Center	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC207002	HDPE	12"	Institutional	Closed Pipe	Circular	Partial	JCC Recreation Center	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC207003	PVC Pipe	12"	Institutional	Closed Pipe	Circular	Partial	JCC Recreation Center	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC207004	HDPE	12"	Institutional	Closed Pipe	Circular	No	JCC Recreation Center	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC207005	PVC Pipe	12"	Institutional	Closed Pipe	Circular	Partial	Adjacent to JCC Rec Center - 5231 Longhill Rd	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/17/2019
PC208001	STEEL	21"	Industrial	Closed Pipe	Circular	No	Tewning Road Complex	Yes	Yes	JL31	yes	Visual assessment completed - Clear - No action required	4/18/2019

Submitted to DEQ September, 2019

Reporting Year 2018 - 2019 Dry Weather Screening

James City County

OutfallID	Material	Size	Comm Name	Type	Shape1	Submerged	Comm Name	UA 2010	UA 2000	HUC	map	DryWeath_1	Date Inspected
PC208002	Steel	21"	Industrial	Closed Pipe	Circular	No	Tewning Road Complex	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	4/18/2019
PC208004			Tewning Rd				Operations Tewning Rd				yes	Visual assessment completed - Clear No action required	4/18/2019
PC210001			Mid County Park		Circular		Mid County Park	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	4/18/2019
PCTMS001	RCP	18"	School	Closed Pipe	Circular	No	Clara Byrd Baker ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	5/17/2019
PCTMS002	RCP	15"	School	Closed Pipe	Circular	No	Clara Byrd Baker ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	5/17/2019
PCTMS003	Closed Pipe	Unkn own	School	Closed Pipe	N/A	No	Clara Byrd Baker ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	5/17/2019
PCTMS004	RCP	12"	School	Closed Pipe	Circular	No	Clara Byrd Baker ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	5/17/2019
PCTMS005	RCP	12"	School	Closed Pipe	Circular	No	Clara Byrd Baker ES	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	5/17/2019
PCTMS006	RCP	24"	School	Closed Pipe	Circular	No	JCSA Desal Plant	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	4/17/2019
PCTMS007			School				12	Yes	Yes	JL31	yes	Visual assessment completed - Clear No action required	4/17/2019
WC000001	RCP	12"	Institutional	Closed Pipe	Circular	No	ADJ to Volunteer FS Forge/Richmond Rd	Yes	No	YO62	yes	Visual assessment completed - Clear No action required	5/17/2019
WC000008	RCP	15"	Institutional	Closed Pipe	Circular	No	ADJ to Volunteer FS Forge/Richmond Rd	Yes	No	YO62	yes	Visual assessment completed - Clear No action required	5/17/2019
YC102001	RCP	30"	School	Closed Pipe	Circular	No	Toano MS	Yes	No	JL28	yes	Visual assessment completed - Clear No action required	4/17/2019
YC104001	RCP	24"	School	Closed Pipe	Circular	Partial	Norge ES	Yes	No	JL28	yes	Visual assessment completed - Clear No action required	4/17/2019
YC104002	RCP	21"	School	Closed Pipe	Circular	Partial	Norge ES	Yes	No	JL28	yes	Visual assessment completed - Clear No action required	4/17/2019

Submitted to DEQ September, 2019

Sanitary Sewer Overflow Reporting System (SSORS)
Reporting Year 2018-2019

SSORS#	Incident Date	Basin	Cause	Reported Date	Amount of Material (gal)	Amount Materials Recovered (gal)	Amount Materials to Water (gal)
105218	7/21/2018	LS 6-8	Rain - 3 inches	7/23/2018	-1/12,769 gal.WW	0	-1
105219	7/21/2018	LS 6-2	Rain - 3 inches	7/23/2018	-1/31,298 gal.WW	0	-1
105230	7/30/2018	LS 6-1	Rain - 2.75 inches with rain for previous 7 out of 9 days	7/31/2018	-1/1,200 gal.WW	0	-1
105231	7/30/2018	LS 9-7	Rain - 2.75 inches with rain for previous 7 out of 9 days	7/31/2018	-1/11,550 gal.WW	0	-1
105232	7/30/2018	LS 3-1	Rain - 2.75 inches with rain for previous 7 out of 9 days	7/31/2018	-1/3,066 gal.WW	0	-1
105234	7/30/2018	LS 4-8	Rain - 2.75 inches with rain for previous 7 out of 9 days	8/1/2018	-1/3,450 gal.WW	0	-1
105236	7/30/2018	LS 6-5	Rain - 2.75 inches with rain for previous 7 out of 9 days	8/1/2018	-1/4,000 gal.WW	0	-1
105237	7/30/2018	LS 4-5	Rain - 2.75 inches with rain for previous 7 out of 9 days	8/1/2018	-1/1,250gal.WW	0	-1
105238	7/30/2018	LS 5-2	Rain - 2.75 inches with rain for previous 7 out of 9 days	8/1/2018	-1/2,700 gal.WW	0	-1
105239	8/2/2018	LS 1-3	Lightening strike broke Low Pressure Force Main	8/3/2018	1,500	1,000	500
105241	8/9/2018	LS 1-5	Grease Blockage	8/10/2018	207	0	207
105245	8/13/2018	LS 3-8	Contractor struck JCSA gravity main while excavating for a stormwater restoration project.	8/14/2018	1,137	600	537
105251	8/27/2018	LS 1-3	Low Pressure Force Main Pipe Joint Failure	8/28/2018	1,710	1,700	10
105252	8/29/2018	LS 1-2	1-1/4" Grinder Pump Service Force Main Pipe Joint Failure	8/29/2018	2,050	2,000	50
105263	9/7/2018	LS 3-1	Grinder Pump Service Force Main Shut Off Valve Failure	9/10/2018	2,500	2,000	500

Sanitary Sewer Overflow Reporting System (SSORS)
Reporting Year 2018-2019

SSORS#	Incident Date	Basin	Cause	Reported Date	Amount of Material (gal)	Amount Materials Recovered (gal)	Amount Materials to Water (gal)
105274	10/11/2018	LS 2-8	Large tree fell across pipe bridge taking out a gravity main and force main.	10/12/2018	13,000	0	13,000
105291	11/13/2018	LS 4-5	Heavy Rain 0.8 inches	11/14/2018	175	0	175
105300	11/24/2018	LS 4-5	Heavy Rain 1.46 inches in 6 hours	11/26/2018	300	0	300
105371	2/19/2019	LS 9-9	VDOT contractor struck marked 2" FM while excavating for traffic sign foundation	2/19/2019	2,000	1,500	500
105392	3/27/2019	LS 9-5	Concrete bench in manhole defective and grease accumulated on debris	3/28/2019	1,050	0	1,050
105432	6/7/2019	LS 6-8	Heavy Rain 4 inches in 24 hours	6/10/2019	7,100	0	7,100

Reporting Year 2018-2019 Hazardous Spill Report

Basic Incident Date Original (FD1.3)	Basic Incident Number (FD1)	Basic Incident Full Address	Basic Incident Type Code (FD1.21)	Basic Incident Type (FD1.21)	Basic Hazardous Materials Release (FD1.44)	HazMat Estimated Amount Released (FD14.8)	HazMat Released Into (FD14.11)	Basic Incident Primary Narrative (FD1.47)
07/07/2018	1805866	3161 RIDGE Drive	411	Gasoline or other flammable liquid spill				E11 M11 BAT111 responded to 3161 Ridge Dr. for a strange smell inside. Upon arrival we found a 2 story residential structure w/ nothing showing and the occupants out side. Home owner stated that they had gotten home and had a very strong smell that they could not identify. Crews investigated to find a strong gasoline smell through out the house. Gas monitor was used w/ nothing found. Smell was strongest in the garage near the air handler. A lawn mower was found leaking gas. Lawn mower was removed from the garage. Home owner was advised that the smell could linger for some time, but no other hazards were found. All units were cleared. Clauser Home owner: Mike Padden (804)380-3431
07/13/2018	1806058	428 MCLAWS Circle	411	Gasoline or other flammable liquid spill	Gasoline - vehicle fuel tank or portable container			E-21 YM-3 was dispatched to the area of 428 Mclaws Circle for a fuel spill. E-21 arrived to find one vehicle pulled into a parking lot that was leaking fuel from underneath of her vehicle. Driver of the vehicle Miss Bradford stated she was driving down Mclaws Circle when she ran over a uncovered manhole. The bottom of her vehicle was compromised and had several punctures that were obtained to her fuel tank. A crew from Branscome stopped to help and started putting dirt to guard the storm drain. E-21 cancelled York M-311 and E-21 crew put oil dry down onto the spill. It is estimated based off of the information provided that approx 10 gallons of gas was spilled onto the roadway. No product ever made it to the storm drain. The gutter was dammed off with oil dry. County PD arrived and took a report from Miss Bradford. E-21 swept up the area and turned over the scene to county. All hazards were mitigated. Mrs Bradford was standing by with county pd awaiting arrival of a tow truck. A.BALLARD ***** Vehicle Info: Make: Toyota Model: RAV-4 License Plate:

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								VIRGINIA ZS-1051 VIN# 2T3DFREV4HW605560 Insurance Company: Erie Insurance Group
08/21/2018	1807349	370 MCLAWS Circle	411	Gasoline or other flammable liquid spill				E21 responded to the above location for a fuel spill. Upon arrival crew met the owner of the vehicle in the parking lot who stated his truck had a small fuel leak and no one would tow it until the area was secured by the fire department. No fuel was noted on the ground nor any smell, no other hazards were noted and E21 returned available.
09/10/2018	1808030	100 RT 199 WB OFF TO MERRIMAC WB Ramp	411	Gasoline or other flammable liquid spill				JCCFD E-21 was dispatched to a report of a fuel spill on Rt.199 at Merrimac Trail. Upon arrival found YCSD deputy out with a FedEx box truck leaking transmission fluid. E-21 crew put oil dry down and to stop the flow of transmission fluid. The driver of the FedEx truck already called a tow truck. E-21 and YCSD deputy both cleared the scene.
10/03/2018	1808807	6485 CENTERVILLE Road	411	Gasoline or other flammable liquid spill				Responded to the above address for a Mercury Grand Marquis leaking gasoline in the parking lot. On arrival JCCPD was out with a vehicle that was leaking gas from the gas tank. there appeared to be 2-3 gallons on the ground with an active leak. Oil dry was put down to control the runoff. JCCPD made contact with the owner who had a tow truck come and get the vehicle.
11/08/2018	1810085	2054 JAMESTOWN Road	411	Gasoline or other flammable liquid spill	Gasoline - vehicle fuel tank or portable container	1	Air, water, and ground	Q3 R31 dispatched initially to Jamestown Marina at 309 Neck O Land Rd for a fuel spill. units arrived and were directed to updated location. Units arrived and found Park Ranger on scene with marina staff stating there was gasoline coming from a boat that was tied up in one of the slips. absorbent booms were placed around the vessel that was leaking to contain any further leaking fuel. the boats battery and shore tie was disconnected to prevent any electrical charge. fuel valves on the vessel were also secured. Boat owner was notified of the situation. Marina staff contacted the emergency spill line for the EPA. USCG was also notified of the situation, sending a representative.

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								scene turned over to Park Ranger and marina staff. all units available.
12/03/2018	1810802	5535 CENTERVILLE Road	411	Gasoline or other flammable liquid spill				E41 responded emergency to the listed address for the report of a fuel (gasoline) spill. Unit arrived on scene to find a single white van located at the entrance of Freedom park. The driver stated it had leaked approximately one gallon of fuel onto the ground before he was able to place a bucket underneath of the vehicle. He made contact with a tow company and had a tow truck in route. He was advised not to restart vehicle until it had been seen by mechanic. E41 returned available.
12/06/2018	1810903	4820 MONTICELLO Avenue	411	Gasoline or other flammable liquid spill	Gasoline - vehicle fuel tank or portable container			Q3 responded to 4820 Monticello Ave for a fuel spill at the Star Express gas station. Upon arrival, vehicle owner was at a fuel pump stating that when she was putting fuel in her gas tank she noticed gas forming a puddle by her rear driver side tire. Owner stopped fueling her vehicle and told gas station attendant who called 911. The gas puddle that both the owner and attendant saw had already evaporated by the time Q3 arrived on scene. No active leaks were found when inspecting owner's gas tank and area around it. Owner was advised she should call a towing company and not start her vehicle as there was nothing the fire department could do about her leak. Owner stated that she was going to call one. Q3 became available.
12/10/2018	1811113	5720 WARHILL Trail	411	Gasoline or other flammable liquid spill				Chief 1 and Chief 4 were notified of a possible fuel spill at WISC. Upon arrival they found approximately 15 gallons of diesel fuel on the ground that had spilled from a forklift from Sun Belt Rentals. The fuel was spread out from the Wanner Stadium to the parking lot adjacent to the soccer fields. there was a sheen all over the parking lot. Snow was melting causing this sheen to run into the storm water system. the piping was traced and we found the outlet into the pond adjacent to the road. An absorbent boom was placed at the storm drain outlet and was stretched across the inlet to

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								catch as much of the sheen as possible. York County HM5 was on the scene to provide 60 ft of boom material. VDEM Hazmat Officer Todd Cannon was on the scene and met with park staff, the contractor, and representatives of Sun Belt Rental. Cannon also was in contact with the Virginia EOC and Va DEQ. the plan was to allow the sun to volatilize the remaining product on the ground and to install the boom across the section of pond. This boom to remain in place for 1-2 weeks to allow rain to run-off any remaining product into the boom. Sun Belt Rental will replace the boom that was obtained from York County Fire. Sun Belt will also assume responsibility for collecting and disposing the boom material from the pond.
12/11/2018	1811137	3814 WAR HILL Green	411	Gasoline or other flammable liquid spill				All units were dispatched for a smell of natural gas. Judging by the comments E41 and M41 responded to scene and all second due units were reduced to non emergency. Upon arrival Station 4 units evaluated the exterior of 8 units as well as the inside of the ones where people were home. There was no reading of natural gas on the monitor. Va Natural Gas responded to scene to reevaluate the issue that they had originally done on Sunday. The only hazards found was a gasoline leak from overfilling a generator. All units returned to service.
12/17/2018	1811318	5715 RICHMOND Road	411	Gasoline or other flammable liquid spill				E41 responded for a fuel leak from a car. Upon arrival security was with the car and t had a small leak. Kitty litter was placed to control run off. Owner had contacted her insurance company for a tow truck. E41 remained on scene to make sure no hazards reoccurred or became heavier during loading. The car was secured to tow truck and E41 returned to service.
02/14/2019	1901389	2700 IRONBOUND Road	411	Gasoline or other flammable liquid spill				Q3 responded to this location for gas leaking from a vehicle. Q3 on scene to find dodge van pulled into a parking lot that had been leaking fuel.All of the fuel had leak out and the owner was getting a tow truck. there were no other hazards. Q3

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								cleared.
02/27/2019	1901765	6390 RICHMOND Road	411	Gasoline or other flammable liquid spill				E11, M11, L1 responded for the odor of gas in a structure mutual aide given to York County. Units arrived and per command staged while they investigated. crews found that it was a gasoline leak in the service department, command released all james city units.
03/02/2019	1901856	11999 HUMELSINE Parkway East	413	Oil or other combustible liquid spill				R41, E41 responded to the report for a disable vehicle on RT.199 west of Longhill Rd upon arrival we found a car leaking a small amount of oil from the engine spill was cleaned with oil dry and all FD. units cleared the scene JCCPD unit remained with car to await a tow truck
03/08/2019	1902014	1303 JAMESTOWN Road	421	Chemical hazard (no spill or leak)				Q3/BATT311 responded to Restore at 1303 Jamestown Rd for some chemicals that were dropped off at the store. Upon arrival, a hard case box was open. Box was filled with spray paint cans, paint thinner, and bondo. All products were sealed and did not present an environmental hazard. Staff member was advised to keep items in the box container and to look on the county website for disposal of chemical waste or to contact the dump to see if they will dispose of them. Staff was also advised to be more mindful when accepting containers without viewing what is in them. All units became available.
03/14/2019	1902223	103 TILGHMAN Court	411	Gasoline or other flammable liquid spill				E41/R41 responded to the above location for a fuel spill. Upon arrival, we found an active fuel leak coming from the underside of a vehicle. Oil dry was spread out to mitigate the hazard in the parking lot and absorbent pads were placed under the vehicle to collect the leaking gasoline. Approximately 2-3 gallons of gasoline leaked from the vehicle, which appeared to have a cracked fuel tank. Once the leak had stopped, the vehicle was picked-up by a Skimino Towing flatbed for transport to the Kia dealership on Richmond Road in Williamsburg. All units available. SAUNDERS
03/15/2019	1902237	50 KINGSMILL	411	Gasoline or				Units responded for the report of a fuel leak. Upon

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		Road		other flammable liquid spill				arrival found a white F550 in the parking lot, parked leaking fuel from a tank on the bed of his truck. Truck was owned by Branscome inc. Roughly one gallon of fuel had been dripped onto the pavement. E21 put oil dry on the affected area. Hotel management went inside to the OSHA convention and found the vehicle operator to notify him of the safety hazard of the leaking fluid. Vehicle operator contacted his senior staff who told him to return to their headquarters to offload the fuel. Units cleared
03/16/2019	1902269	4625 MONTICELLO Avenue	411	Gasoline or other flammable liquid spill	Gasoline - vehicle fuel tank or portable container			Units dispatched to above address for fuel spill. Arrived to gas station to find gray Nissan Frontier parked at middle fuel pump with gasoline dripping from vent line coming from fuel tank. No smoke, no fire. Truck was in off position prior to arrival. Truck confirmed to be in off position. Tow service notified. Amount of fuel leaked from truck appeared to be approximately one liter. Leak contained and confined with oil dry. Wrecker arrived on scene. All units cleared from call and went available. J. Carroll
03/30/2019	1902744	100 LAKE Drive	413	Oil or other combustible liquid spill				Q3, M31 dispatched to above location for reported oil spill. Units responded and found a small amount of oil in the roadway. VDOT had already responded to a stop sign down which apparently ruptured a vehicles oil tank. Oil-dri is applied to the spill. No other hazards found. Units returned to service.
04/09/2019	1903053	5491 OLDE TOWNE Road	413	Oil or other combustible liquid spill				E41 and R41 responded to 5491 Olde Towne Road for a possible fuel spill. JCCPD was on scene stated fluids from a vehicle involved in an accident were leaking. E41 arrived and found a small portion of the road with antifreeze on it. JCCPD was worried about motorists since it was slick. E41 cancelled R41. E41 placed down oil dry and covered the affected area. No other hazards on scene. E41 marked available.
04/22/2019	1903490	1814	421	Chemical				M41 responded to 1814 Richmond Road for a

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		RICHMOND Road		hazard (no spill or leak)				Hazardous Materials Incident with the City of Williamsburg. M41 arrived and staged in the parking lot of the business with B10. Engine 10 arrived and investigated a dumpster on the property which household chemicals and paint supplies had been discarded. M41 assisted units on scene and was cleared by B10. M41 available.
05/13/2019	1904162	2280 I 64 E	411	Gasoline or other flammable liquid spill				E11,SQD1 dispatched to a report of a fuel spill from a tractor trailer. Units responded to thee 227 E I-64 upon entering the interstate a liquid trail was spotted up until the arrival at the truck in question that was located on the shoulder of the interstate at MM 228. Arrived to find a tractor trailer with a puncture in the left saddle tank that was now empty. Driver stated he hit debris in the roadway prior to the 227, driver stated he was less than 1/2 tank @ 40 gallons. Estimated spill on the side of the road is 25-30 gallons. Pooling of Diesel fuel was noticed in ruts and a small ditch in a 25 x 20 area. Several small booms were placed in the ditch along with oil dry @ 5 bags to reduce the runoff. State EOC was notified with a request for the State Haz Mat Officer to contact E11. Haz Mat Officer contact was made via cell with information given about current conditions and plan. Officer Cannon was good with the plan of providing driver with a cleanup crew and making contact with them. Clean Harbors cleanup crew was notified and responded. Arrived on scene assessed the situation, they advised they would be covering the area with plastic, put down more oil dry and would return later for cleanup. State Police on scene as well as Smart Traffic, SCotty Towing came and removed Tractor Trailer.
05/20/2019	1904380	7340 RICHMOND Road	411	Gasoline or other flammable liquid spill				E11, Squad 1, M11 were dispatched for a fuel spill at a gas station. Upon arrival, E11 found one gas nozzle and hose disconnected from the pump with no active leak. There was approx 1/2 gallon spilled. Store clerk said that a customer drove off with the nozzle in the vehicle. Store clerk did hit the

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								emergency shut off for the pump. JCCPD was requested by E11 per the store owners request. Store clerk stated he would take care of any clean up but the small amount of gasoline was evaporating as we talked with the clerk and no clean up was needed. . All units marked available.
05/25/2019	1904552	129 COOLEY Road	421	Chemical hazard (no spill or leak)				Q-3 Batt-311 responded to the listed location for a report of odd smell inside a structure. On arrival the home owner was standing out side waiting for our arrival. Home owner stated that he had a drainage problem in the up stairs sink. Home owner stated he used a Rooto drain cleaning product in the sink. Home owner stated that the product had backed up in the drain caused a black substance to form with a very bad odor. Units used atmospheric monitor to check for any additional atmospheric problems with nothing found. Local hazmat resources were contacted regarding the situation we had. They informed us that there was no hazmat situation and that time was needed to allow the product to work. The house was vented with positive pressure electric fan. Once positive pressure fan was stopped all windows were opened and natural ventilation was taking place. Home owner had called the plumber to repair the problem at had. All units returned to service.
06/03/2019	1904817	115 WOPPLESDON	411	Gasoline or other flammable liquid spill				Dispatched to 115 Wopplesdon for a smell of gas in residence. Investigation revealed smell was coming from a leak in the resident's gasoline powered generator. Resident(William Williams) was notified of the problem and leaked gasoline was covered with quick-dry. All units cleared without incident.
06/27/2019	1905606	TEALIGHT	411	Gasoline or other flammable liquid spill	Diesel fuel/fuel oil - vehicle fuel tank/portable	75	Ground	Crews responded to the above address for a call of fuel spill of greater than 5 gallons. Upon arrival crews found one tractor trailer that had ruptured it passenger side paddle tank due to a tire rupturing, striking the fuel tank and creating a large hole leaking diesel onto the ground. Crews placed absorbent pads and booms to contain the leak to

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								the small ditch that was naturally present in addition to manual dirt diking. VDEM was contacted and the driver contacted the clean up company. Approximately 75 gallons of fuel was spilled in total. Crews waited on scene for clean up crews. Upon arrival the scene was turned over to First Call Environmental.

Report Filters

Basic Incident Date Original (Fd1.3): is between '07/01/2018' and '06/30/2019'

Report Criteria

- Basic Incident Type Code (Fd1.21): Is Equal To 411
- Basic Incident Type Code (Fd1.21): Is Equal To 413
- Basic Incident Type Code (Fd1.21): Is Equal To 421

Part C – Section 4

**Minimum Control Measure #4
Construction Site Stormwater Runoff Control**

James City County Compliance Summary Statement
MCM4 Construction Site Stormwater Runoff Control
Permit Reporting Year 1 - July 1, 2018 - June 30, 2019

James City County continues to encourage and enforce responsible development practices as a local VSMP Authority.

The following is a list of Construction Site Runoff highlights for reporting year 2018-2019:

1. A total of 4,860 (4,200 single-family inspections, 660 single-family stormwater plan review inspections) VESCP/VSMP compliance inspections were conducted during the 2018-2019 reporting year.
2. There were 406 first submittal plan reviews conducted by the Stormwater and Resource Protection Division during the 2018-2019 reporting year. Of those, 221 were reviewed as Stormwater Management or Erosion and Sediment Control Plans. The remaining 185 reviews included site plans, plats, conceptual plans, and other County planning reviews.
3. There have been 3 Notices of Violation, 4 Stop Work Orders, and 4 Notice to Comply in regards to the Division's Erosion and Sediment Control program. There were 6 violations in regards to the Division's Chesapeake Bay and Wetlands programs.
4. Virginia DEQ certifications (ESC or SW) certifications obtained by staff – program administrators, inspectors, plan reviewers, or combined: In total, the Division has thirty (30) total certifications as follows: four (4) DUAL combined administrators, seven (7) DUAL inspectors, one (1) Stormwater inspector, three (3) ESC plan reviewers, and one (1) Combined ESC Administrator. In addition, the Division has three registered Professional Engineers, one Engineer-in-Training (EIT), one Certified Landscape Architect, and two (2) Certified Floodplain Managers. These certifications do not include the many provisional certifications employees currently hold due to DEQ trainings completed.
5. There were 25 regulated land disturbing activities resulting from greater than 10,000 square feet disturbed during the 2018-2019 reporting year.
6. There were 10 regulated land disturbing activities resulting from greater than 2,500 square feet disturbed during the 2018-2019 reporting year.

Other Items of Importance from the 2018-2019 reporting year:

- Date of last finding of E&SC program consistency: August 23, 2017.
- Date of last finding of CBPA program consistency: June 2011; Letter received from state on June 27, 2011.
- James City County completed its fifth full year of its obligation as a local VSMP authority. The County's VSMP ordinance is Article II, Chapter 8 of the County Code.
- The County implemented another cycle of instituting the annual permit maintenance fees for the VSMP per Section 8-34 of County Code and 9VAC25-870-830.
- There were no civil charge settlements through the James City County Board of Supervisors for Erosion and Sediment Control or Chesapeake Bay Ordinance violations during the 2018-2019 reporting year.

Part C – Section 4

**Minimum Control Measure #4
Construction Site Stormwater Runoff Control**

Exhibits

Reporting Year 2018-2019 Staff Certifications

		Alves	Bowden	Buchite	Cook	Crech	Emerson	Fuqua	Jordan	Long	Lovett	Menichino	Morgado	Nance	Parker	Petty	Small	Waldren	Wells	Woolson
SWM	Prog Admin				X			X		12/5/2018			X				X		X	X
Training	Insp		X		X	X	X	X	X	9/19/2018		X	X	X	X		X		X	X
Completed	Plan Rev				X					11/8/2018			X				X		X	X
Program	Cert #							Provisional		Provisional							Provisional			
Admin	Expire																2/21/20			
Inspector	Cert #		DIN0921			DIN0219	DIN1068	SWIN1065	DIN1067	Provisional		DIN0512		DIN0846	DIN0218		Provisional			
	Expire		11/3/20			8/12/21	1/31/22	7/27/2020	12/11/21			11/21/19		9/23/22	8/10/21		2/27/20			
Plan	Cert #									Provisional							Provisional			
Reviewer	Expire																5/9/20			
Combined	Cert #				DCA0294								DCA0261					DCA0226	DCA 0408	
Admin	Expire				11/8/22								6/23/22					12/30/21	2/5/22	
License	Type				PE								EIT				PE		PE	LA
	Expire																1/31/20		7/31/21	2/28/21

		Alves	Bowden	Buchite	Cook	Crech	Emerson	Fuqua	Jordan	Long	Lovett	Menichino	Morgado	Nance	Parker	Petty	Small	Waldren	Wells	Woolson
ESC	Prog Admin				X			X		X			X		X		X		X	X
Training	Insp		X	X	X	X	X	X	X	X		X	X	X	X		X		X	X
Completed	Plan Rev			X	X	X		X		X			X		X		X		X	X
Program	Cert #							Provisional							Provisional		ESPA0243			
Admin	Expire																8/16/22			
Inspector	Cert #		DIN0921	2247		DIN0219	DIN1068	Provisional	DIN1067			DIN0512		DIN0846	DIN0218		ESIN1395			
	Expire		11/3/20	5/31/20		8/12/21	1/31/22		12/11/21			11/21/19		9/23/22	8/10/21		9/12/22			
Plan	Cert #			393		513		Provisional							537		PE			
Reviewer	Expire			11/30/21		5/31/22									11/30/19		1/31/20			
Combined	Cert #				DCA0294					ESCA 0352			DCA0261					DCA0226	DCA 0408	
Admin	Expire				11/8/22					3/27/22			6/23/22					12/30/21	2/5/22	
License	Type				PE								EIT				PE		PE	LA
	Expire																1/31/20		7/31/21	2/28/21

CFM
1/31/2021

Reporting Year 2018-2019 SFD and Disturbed Area

Months	Number of SFD	Total Acreage
July	50	7.72
August	11	5.061
September	0	0
October	23	6.871
November	26	10.4
December	23	6.3
January	26	4.503
February	13	6.24
March	18	2.764
April	25	6.098
May	31	6.404
June	22	4.2076

Part C – Section 5

**Minimum Control Measure #5
Post-Construction Stormwater Management for
New Development and Development on Prior Developed Lands**

James City County Compliance Summary Statement
MCM5 Post-Construction Stormwater Management for New Development and
Development on Prior Developed Lands

Permit Reporting Year - July 1, 2018 - June 30, 2019

James City County continues its tradition of proactive post-construction stormwater management through its permitting processes, inspection procedures, and maintenance agreements. The following are highlights of the County's Post-Construction Stormwater Management Program for reporting year 2018-2019:

- The County's Stormwater and Resource Protection Division inspects privately owned BMPs or stormwater management facilities (SWMFs) on a once per 5-year MS4 permit cycle. These inspections do not include facilities that have their own DEQ VPDES General Permit for Stormwater Discharges Associated with Industrial Activity. The Division also inspects County owned or operated SWMFs on a yearly basis. As part of the inspection program, the Division provides an individual rating based on performance. A rating 1 or 2 being the highest levels of performance requiring little to no maintenance or further action. A letter is sent to the owners of those facilities indicating that regular maintenance is still required. A SWMF receiving an inspection rating of 3 or 4 results in a letter sent to the owner of the facility indicating that further action needs to be taken in order to correct the failing items. Of the 207 BMPs inspected during the 2018-2019 reporting year, 90 inspections of SWMFs resulted in a rating of 3 and seven (7) inspections resulted in a rating of 4. A Declaration of Covenants for new privately owned BMPs is recorded and maintained in County records to assist with future BMP maintenance concerns.
- The Division conducted inspections of 207 privately SWMFs during reporting year 2018-2019.
- The Division conducted inspections of 113 County owned or operated SWMFs in reporting year 2018-2019. Annual maintenance activities are reported on a monthly basis.
- Five (5) public BMP retrofits or repairs were conducted during the reporting year July, 1 2018 – June 30, 2019. The retrofits or repairs conducted included the removal of noxious animals, the repair of subsidence, the repair of inlets to stop leakage, and the repair of an embankment.
- The Stormwater and Resource Protection Division submitted information on SWMFs through the Virginia Construction Stormwater General Permit (SWCGP) database for land disturbing activities for which the County was required to obtain covered under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f of the MS4 permit.
- The Division electronically reported BMPs to the DEQ using the DEQ BMP Warehouse in accordance with Part I E 5 g of the MS4 permit on September 30, 2019.

Part C – Section 5

**Minimum Control Measure #5
Post-Construction Stormwater Management for
New Development and Development on Prior Developed Lands**

Exhibits

**Maintenance Agreements
Reporting Year 2018-2019**

Date Created	Date Modified	Property Location
8/15/2019	8/28/2019	3825 Rochambeau Drive - Toano Mini Storage
7/25/2019	8/1/2019	4551 John Tyler Hwy/ Branscome Phase II Site Work
7/9/2019	7/17/2019	900 Mounts Bay Rd/ Kingsmill Townhomes Parcel R-28
6/12/2019	8/28/2019	Quarterpath 7-Eleven (7337 Pocahontas Trail)
4/29/2019	4/29/2019	APR 2019 Drainage System Maintenance Form Revised
3/6/2019	3/18/2019	Fords Colony Marriot Manor II
2/13/2019	4/29/2019	FEB 2019 Drainage System maintenance form
2/11/2019	4/24/2019	2018 Drainage Pre
1/23/2019	4/23/2019	Subdivision Plan for Forest Glen Sec 5
1/23/2019	2/22/2019	Spoke and Art Provisions
1/14/2019	2/22/2019	Williamsburg, VA - Merrimac trail & Wickre Street
1/11/2019	2/5/2019	Williamsburg Honda Vehicle Storage Lot
11/9/2018	11/7/2019	Lumos Telecommunications
10/23/2018	10/23/2018	Kingsmill Southall Quarter Drainage
10/23/2018	10/23/2018	Kingsmill Mile Course Drainage Improvements
10/23/2018	10/23/2018	Kingsmill Mile Course Drainage Improvements
8/29/2018	8/29/2018	Vilas at Five Forks DOC
8/23/2018	10/23/2018	Jacobs Industrial Center
8/3/2018	10/23/2018	Banks Estate
5/30/2018	7/13/2018	234 Neck O Land Rd
5/17/2018	7/13/2018	Stonehouse Owners Foundations
5/15/2018	7/13/2018	Williamsburg Landing
5/9/2018	7/13/2018	Greensprings West Owners
5/9/2018	7/13/2018	Greensprings West Owners
5/1/2018	7/13/2018	Powhatan Village HOA Drainage Repair
5/1/2018	7/13/2018	James Square Drainage Repair
4/30/2018	7/13/2018	Nice Commercial Properties
3/2/2018	8/20/2018	O'Reily Automotive Stores, Inc
2/9/2018	7/13/2018	2205 Jamestown Rd

CGP Permits Terminated and Associated BMPs
2018-2019 Reporting Year

Permit Number	Permit Status	Operator Name	Construction Activity Name	Location Address Line 1	Hydrologic Unit Code (HUC)	Permanent BMP Type
VAR10D133	Terminated	American Eastern Inc	Windsor Ridge Section 3		YO62	Wet Pond
VAR10E234	Terminated	GS Stonehouse Greenland Sub LLC	Stonehouse Landbay 3	9235 Fieldstone Pkwy	YO62	N/A
VAR10E789	Termination in Progress	Hampton Roads Development LLC	Moss Creek Commerce Centre	9690 9686 Old Stage Rd	YO62	
VAR10G151	Terminated	American Eastern Inc	Windsor Ridge Section 4	225 Meadowcrest Trl	YO62	Wet Pond
	Terminated	American Eastern Inc	Windsor Ridge Section 5	226 Meadowcrest Trl	YO62	Lake Nice Stilling Basins
VAR10G354	Terminated	Bryant Contracting Inc	Bryant Contracting Inc	7780 7754 and 7762 Richmond Rd	YO62	SRP BMP #1
VAR10G354	Terminated	Bryant Contracting Inc	Bryant Contracting Inc	7780 7754 and 7762 Richmond Rd	YO62	SRP BMP #2
VAR10H031	Terminated	LaRS Group Inc	New Town Assisted Living Facility	5525 Discovery Park Blvd	JL31	N/A
VAR10H031	Terminated	LaRS Group Inc	New Town Assisted Living Facility	5525 Discovery Park Blvd	JL31	Part B: Other (this could be a manufactured treatment device, etc.)
VAR10H914	Terminated	Longhill Excavating Inc	Jacobs Industrial Center Parces 8A and 8B	263 Industrial Blvd	YO62	Part B: Wet Pond 1
VAR10I005	Terminated	James City County Dept of General Services	Yarmouth Creek Headwaters Stream Restoration Project	Richmond Rd	JL28	N/A
VAR10I376	Terminated	WM Jordan Co Inc	Windsor Hall Memory Care Expansion	3900 Windsor Hall Dr	JL31	
VAR10J058	Terminated	Par 5 Development Group LLC	Dollar General Pocahontas Trail	8766 Pocahontas Trl	JL35	Grass Channel
VAR10J058	Terminated	Par 5 Development Group LLC	Dollar General Pocahontas Trail	8766 Pocahontas Trl	JL35	ForeBay
VAR10J058	Terminated	Par 5 Development Group LLC	Dollar General Pocahontas Trail	8766 Pocahontas Trl	JL35	Control Level Spreader
VAR10J058	Terminated	Par 5 Development Group LLC	Dollar General Pocahontas Trail	8766 Pocahontas Trl	JL35	Bio-Retention
VAR10J443	Terminated	David A Nice Builders Inc	James City County Library BMP Retrofit Project	7770 Croaker Rd	YO65	Bioretention Basin
VAR10J443	Terminated	David A Nice Builders Inc	James City County Library BMP Retrofit Project	7770 Croaker Rd	YO65	Detention Basin (Existing)
VAR10J966	Terminated	Virtexco Corp	Lafayette High School Auxiliary Gym	4460 Longhill Rd	JL31	Part B: Bioretention 1
VAR10J966	Terminated	Virtexco Corp	Lafayette High School Auxiliary Gym	4460 Longhill Rd	JL31	Part B: Bioretention 2
VAR10K307	Terminated	Riverworks Restoration Inc	Jamestown Road Stream Restoration	Jamestown Rd	JL33	N/A
VAR10K517	Terminated	DLR2 LLC	Commonwealth Building Materials	1701 Endeavor Dr	JL35	Part B: Other (this could be a manufactured treatment device, etc.)
VAR10K517	Terminated	DLR2 LLC	Commonwealth Building Materials	1701 Endeavor Dr	JL35	Part B: Other (this could be a manufactured treatment device, etc.)
VAR10L126	Terminated	Fred A Nice Construction Co LLC	234 Neck O Land Road	234 Neck O Land Rd	JL33	Part B: Other (this could be a manufactured treatment device, etc.)
VAR10L440	Terminated	Henderson Inc	Williamsburg Honda Vehicle Storage Lot	7101 and 7059 Richmond Rd	JL28	Part B: Bioretention 1
VAR10L440	Terminated	Henderson Inc	Williamsburg Honda Vehicle Storage Lot	7101 and 7059 Richmond Rd	JL28	Part B: Bioretention 2
VAR10L546	Terminated	George Nice and Sons Inc	Owens Illinois LLC (W023 BMP Repair)	140 Industrial Blvd	YO62	Drainage Facility

Part C – Section 6

Minimum Control Measure #6

**Pollution Prevention and Good Housekeeping for Facilities
Owned or Operated by the Permittee within the MS4 Service Area**

James City County Compliance Summary Statement

MCM6 Pollution Prevention and Good Housekeeping for Facilities Owned or
Operated by the Permittee within the MS4 Service Area

Permit Reporting Year - July 1, 2018 - June 30, 2019

County-wide participation and training in pollution prevention continues to be a prime focus of employees in this permit year.

As described in MCM3, the Pollution Prevention Team was established during the first permit cycle for education and collaboration between departments and divisions. This team has accomplished the following:

- Continued implementation of SWPPPs for County facilities;
- Supported a County-wide pollution prevention training program; and,
- Provided valuable departmental information to the team in order to move forward with collaborative prevention efforts.

Street sweeping continues to be a part of the stormwater program. During the 2018-2019 reporting year, more than 60 tons of sediment were removed from MS4-owned and operated facilities including WJCC schools.

Stormwater Pollution Prevention Plans (SWPPPs) for high-priority County facilities including the James City Service Authority Complex, the Law Enforcement Center, the Convenience Centers (2), Fleet Maintenance Center, and the Williamsburg-James City County Schools Operations Center were developed during a previous permit reporting year and implementation of those SWPPPs has been ongoing. The five (5) Fire Stations in James City County were not considered high-priority facilities for pollution prevention. However, Standard Operating Procedures (SOPs) were developed for each fire station prior to the 2018-2019 reporting year and those SOPs focus on spill cleanup and good housekeeping.

This year an audit of the County facilities with SWPPPs was conducted by staff from the James City County Stormwater and Resource Protection Division. Division staff had pollution prevention conversations with facility operators and found a high level of commitment to the measures outlined in those facility SWPPPs.

For the Turf and Landscape Management program, the County has developed and implemented seven (7) new certified nutrient management plans (NMPs) for MS4 owned properties, covering 13.43 acres for reporting year 2018-2019. This brings the acres under NMPs to 52.14. For the facilities that have been completed, thoughtful and appropriate attention to the management plan is on-going.

County-wide good housekeeping trainings were conducted during the 2018-2019 reporting year using the Raincheck Program and quiz materials developed by the Pollution Prevention Team. In addition to this training, all current pesticide applicators, hazmat operators, erosion and sediment control (ESC), and stormwater certifications are up to date.

Part C – Section 6

Minimum Control Measure #6

**Pollution Prevention and Good Housekeeping for Facilities
Owned or Operated by the Permittee within the MS4 Service Area**

Exhibits

Street Sweeping - 2018-2019 Reporting Year

Month	# County Facilities	# County Facilities Swept	Total Sediment Removed (Tons)	Total Sediment Removed (Pounds)
Jun-18	55	9	10.50	21,000
Nov-18	55	52	22.13	44,260
Apr-19	55	52	28.11	56,220
			60.74	121,480



***End of First Quarter, FY 19, TURF LOVE/GARDEN LOVE PROGRAMS
STATISTICAL REPORT TO JAMES CITY COUNTY***

No. of Nutrient Management Plans Issued:			FYTD
Residential		35	35
Commercial*		35	
		0	
(James City County/School Properties = 0)			
Acres Covered by Nutrient Management Plans:			
Residential		4.75	4.75
Commercial		0.00	
(James City County/School Properties = 0)			
Risk Assessments (Acres):			
High (residential and commercial)		1.84	1.84
Low (residential and commercial)		2.91	2.91
(James City County/School Properties = 0)			
No. of Property Owners Contacted (Turf Love Program)		525	
(excludes Garden Love Program contacts; see below)			
Residential –postcard mailing, Help Desk, phone calls, walk-in			
Commercial			
(James City County/School Properties = 0)			
• 250 renewal postcard sent			
General Contacts (may not be property owners):			
(presentations, educational programs, Farmers' Market)		35	
• Farmers Market			
Rain Gardens:		2	
Complete Giffin,		1	
Area Treated (square feet)		135 sf	135
Amount Rebated			

Addendum:

FY 19 Marketing Accomplishments:

Month /Task	Result
July: <ul style="list-style-type: none">• Office mailing to past TL clients• New Homeowner postcards• Train new Lawn Rangers	<ul style="list-style-type: none">• Mailing provided early in spring• 250 New homeowner postcards sent• On-Boarded 2 new Lawn Rangers
August: <ul style="list-style-type: none">• Send new homeowner postcards• Create renew application postcards	<ul style="list-style-type: none">• 200 additional postcards mailed
September/ October: <ul style="list-style-type: none">• 2-5 neighborhood visits• Send Renew Postcards	Working with 3 HOA's to provide NMP's to homeowners <ul style="list-style-type: none">• Whitehall, The Vinyards, Liberty Crossing• Sent 250 renewal postcards



Colonial Soil and Water Conservation District

205 Bulifants Blvd., Suite C • Williamsburg, VA 23188

757-645-4895

Quarterly Report for James City County Turf Love/Garden Love

Period covered: February 1st, 2019 – March 31st, 2019; 3rd fiscal quarter

Completed Turf Love Nutrient Management Plans: 9

Total acreage: 0.87 acres

Proffers: Candle Station – 4

Individual homeowners: 5

Turf Love site visits and plans in progress: 14

Proffers: 0

Individual homeowners: 14

James City County Schools or County-Owned Properties: 0

Estimated number of property owners reached: 250

Outreach methods include: VCE Master Gardener Help Desk calls, walk-in visits, CSWCD website and Facebook visitors, article submitted to WY Daily and the Virginia Gazette, Turf Love announcements sent via HOA communication at Ford's Colony, Kingspoint, and Monticello Woods

Garden Love rain garden visits completed: 4

Rain gardens installed: 0

Rain garden installations in progress: 1 totaling to 400 sq. ft.

Narrative

Since taking on program administration responsibilities for Turf Love, the District has hired former VCE Program Assistant Bob Winters to continue to provide certified nutrient management plans and general guidance. Bob's assistance with getting the program transitioned smoothly has been extremely helpful. Robyn Goad, the District's Urban Conservationist and Turf Love program manager, is working with current VCE Master Gardener Lawn Rangers to complete the client visits and soil sampling. Lawn Rangers have expressed excitement about working with the District to revitalize this program, and have also been very helpful in getting District staff caught up on general program needs. Robyn and the current Lawn Rangers are working to recruit new Lawn Rangers from the current Master Gardener intern class and expect 2-4 new Rangers to be added to the group as soon as they graduate. Training opportunities for current and future Lawn Rangers are being developed for April.

Robyn Goad has also completed several Garden Love client visits with assistance from Bob Winters and Master Gardener Carol Fryer, who has served as the Garden Love program catalyst in the past. By combining the objectives of Garden Love with the current program and reimbursement structure of the Virginia Conservation Assistance Program, the District is able to offer both financial and technical assistance to JCC homeowners. There is currently one Garden Love participant moving forward on installing a 400 sq ft rain garden, which is being designed by Carol Fryer.



Colonial Soil and Water Conservation District

205 Bulifants Blvd., Suite C · Williamsburg, VA 23188

757-645-4895

Quarterly Report for James City County Turf Love/Garden Love

Period covered: April 1, 2019 – June 30, 2019; 4th fiscal quarter

Completed Turf Love Nutrient Management Plans: 86

Total acreage: 49.77 acres

Proffers: Candle Station – 28

Promenade – 3

Individual homeowners: 38

James City County Schools or County-Owned Properties: 17

Completed: Warhill High School Baseball, Softball, Track, and Practice Football fields

WISC Baseball fields 1-5, Multipurpose Field

Toano Middle School Baseball, Softball, and Soccer fields

JCC Recreation Center Fields 1 and 2, and Soccer Fields 1 and 2

Estimated number of property owners reached: 320

Outreach methods include: VCE Master Gardener Help Desk calls, walk-in visits, CSWCD website and Facebook visitors, article submitted to WY Daily and the Virginia Gazette, Turf Love announcements sent via HOA communication at Ford's Colony, Kingspoint, and Monticello Woods, and an informational booth at Williamsburg Community Growers' World Water Day celebration

Garden Love rain garden visits completed: 6

Rain garden installations in progress: 3 totaling to 876 ft²

1) Warren Knarr, 116 Lynette Drive – installing 368 ft²

2) Susan Siemietkowski, 100 Southern Hills – installing 288 ft²

3) Harvey Kelly, 3150 Chickahominy Road – installing 220 ft²

Due to Virginia Conservation Assistance Program timeline constraints, these three homeowners have not been able to start construction on their rain gardens; however, they are all pending approval from the State Steering Committee. We anticipate that each of these projects will ultimately receive approval to begin work in July or August.

Agenda
JCC Pollution Prevention (P2) Team Meeting
June 11, 2019, 1:00-2:00 PM
General Services Conference Room, 107 Tewning Road

1. Introductions
2. New MS4 permit discussion
 - a. New 5-year permit effective November 1, 2018
 - b. Similar requirements including illicit discharge ordinance and IDDE SOP
 - i. Legal mechanisms to eliminate sources
 - ii. Time frame, methodologies, and tracking requirements for conducting source investigations
3. AR28
 - a. Awareness
 - b. Contractor/vendor agreements
 - c. Update?
4. SOPs
 - a. Permit requires us to maintain and implement SOPs to:
 - i. Prevent illicit discharges
 - ii. Ensure proper waste disposal
 - iii. Prevent discharge of wastewater to the MS4 w/out a separate VPDES permit
 - iv. Require BMPs when discharging water pumped directly from utility construction and maintenance activities
 - v. Minimize pollutants in runoff from bulk storage areas
 - vi. Prevent pollutant discharge to MS4 from leaking municipal vehicles and equipment
 - vii. Ensure fertilizer and pesticide application is done in accordance with manufacturer's recommendations
 - b. SOPs by Department/Division – updates needed?
 - i. General Services
 - ii. WJCC Bus Maintenance Facility
 - iii. JCSA
 - iv. Parks and Recreation
 - c. Fire Stations 1-5 – updates needed?

- i. Fire Station #1 – June 2017
- ii. Fire Station #2 – June 2015
- iii. Fire Station #3 – June 2015
- iv. Fire Station #4 – June 2017
- v. Fire Station #5 – June 2015

5. SWPPPs

- a. Permit requires us to maintain and implement SWPPPs for each high-priority facility with a high potential to discharge pollutants
- b. Facilities – finalized in 2015-2017
 - i. JCSA complex
 - ii. Law Enforcement Center (LEC)
 - iii. Convenience Centers
 - iv. Fleet Maintenance Center
 - v. WJCC Operations Center
- c. Inspections and compliance
 - i. Quarterly visual
 - ii. Annual compliance
 - iii. Permit requires us to review all high-priority facilities which do not have a SWPPP by June 30 to determine if any facility has a high potential to discharge pollutant therefore needs a SWPPP. If yes, must develop a SWPPP by December 31.
 - iv. If a spill occurs at a high-priority facility which has a SWPPP, we must review the SWPPP within 30 days of the spill to determine if additional measures are necessary to prevent future unauthorized discharges and update the SWPPP within 90 days.
- d. Updates needed?

6. Recent spill/pollution issues on JCC sites

7. Pollution Prevention Training

- a. Frequency – biennial
- b. Types of training
 - i. JCSA spill prevention training
 - ii. Raincheck
 - iii. Pesticide applicators
 - iv. Hazmat operators
 - v. DEQ certifications – ESC & SW

- vi. SWPPP specific?

- c. Tracking and reporting

- i. JCC training

- ii. Pesticide applicators

- iii. Hazmat operators

- iv. DEQ certifications – ESC & SW

- 8. Next steps

- a. Thoughts on future training needs

- b. Site specific needs for pollution prevention compliance

- 9. Next meeting – TBD

Fire Department Hazardous Materials Training:

Completions

Type: Completions
 Run Date: 8/16/2019 6:52
 Shares: Not Shared
 Filters: Number of Activities 2
 User Status Active/Offline
 Number of Courses 24
 Completion Date Range From 07/01/2018 To 06/30/2019
 Type All Assignments

First Name	Last Name	Employee ID	Assignment Name	Assignment Type	Assignment Method	Completion Date	Completion Time	Duration (hours)
Crystal L	Andrews	CLA4962	RedVector - Hazard Communication	AICC Course	Self Assign	6/21/2019	11:13 AM	1
Brian	Daliego	BED4604	22: Introduction to Hazardous Materials	Hazardous Materials NFPA 472	Record Completions	5/27/2019	5:30 PM	1
Anthony J	Kuklis	AJK1328	22: Introduction to Hazardous Materials	Hazardous Materials NFPA 472	Record Completions	5/27/2019	5:30 PM	1
Jasen M	Plocharczyk	JMP1931	22: Introduction to Hazardous Materials	Hazardous Materials NFPA 472	Record Completions	5/27/2019	5:30 PM	1
Melvin	Tomes IV	MHT8757	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	4/5/2019	5:00 PM	40
Thomas	Ludwig	TJL2296	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	4/5/2019	5:00 PM	40
Jared	Ray	JCR6914	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	4/5/2019	5:00 PM	40
Mason	Price	MTP5633	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	4/5/2019	5:00 PM	40
Joshua	Fulton	JTF8270	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	4/5/2019	5:00 PM	40
Ronald	Herrington	RH7603	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	4/5/2019	5:00 PM	40
Douglas	Bourks	DAB0839	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	11/2/2018	5:00 PM	40
Conner	Smith	PCS8149	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	11/2/2018	5:00 PM	40
William (Cody)	VanLeliveld	WCV7454	Hazardous Materials - Operations	Hazardous Materials NFPA 472	Fire Academy	11/2/2018	5:00 PM	40

Pollution Prevention Training
General Services Personnel
2018-2019 Reporting Year

		Training Name:	Spill Prevention
LAST NAME	FIRST NAME	DEPARTMENT	Date Attended7
HILL	JAMES	108	Jun-19
PADO	MATT	108	Jun-19
STEPHANI	KRIS	108	Jun-19
BARDEN	RYAN	135	Jun-19
COOK	DARRYL	135	Jun-19
FUQUA	JOHN	135	Jun-19
JORDAN	SHANNON	135	Jun-19
LOVETTE	CHARLES	135	Jun-19
PARKER	AMY	135	Jun-19
PETTY	JANICE	135	Jun-19
BUCHITE	JOSEPH	135	Jun-19
MORGADO	JUAN CARLOS	135	Jun-19
LONG	TREVOR	135	Jun-19
NANCE	GREG	135	Jun-19
SMALL	TONI	135	Jun-19
WELLS	DEIRDRE	135	Jun-19
WALDREN	CHERYL	135	Jun-19
WOOLSON	MICHAEL	135	Jun-19
CREECH	TINA	135	Jun-19
ABBOTT	MARK W	140	Jun-19
GORDON	SHAWN	140	Jun-19
GRESHAMER	DAVID	140	Jun-19
KOEHL	RICK	140	Jun-19
MOSES	BARRY	140	Jun-19
HANEY	HOLLI	140	Jun-19
NORRIS	JOSHUA	140	Jun-19
NORTHCOTT	JULIE		Jun-19
SMITH	PAT	140	Jun-19
BUTCHER	JON	141	Jun-19
CARTER	MASON	141	Jun-19
CROW	DAN	141	Jun-19
HOLMAN	DENNIS	141	Jun-19
LORENZEN	MARC	141	Jun-19
LOUKE	JEFF	141	Jun-19
PERSONS	SEAN	141	Jun-19
PORTER	JEFF	141	Jun-19
ANTON	JESSICA	141	Jun-19
CHERKAOUI	KARIM	141	Jun-19
RICHARDSON, A	ASHLEY	141	Jun-19
ALVES	CARLOS	142	Jun-19
AUSTIN	MATT	142	Jun-19

Pollution Prevention Training
General Services Personnel
2018-2019 Reporting Year

BURCHAM	WAYLON	142	Jun-19
BYRD	ERNEST	142	Jun-19
DAVILA	HECTOR	142	Jun-19
GORDON-BLACK	JULIA	142	Jun-19
HARRIS	LEON	142	Jun-19
HAUSER	WILLIAM	142	Jun-19
LANE	STEPHEN	142	Jun-19
JARVIS, SR	PATRICK	142	Jun-19
KRUSIC	JOHN	142	Jun-19
MACKERNEY	HUNTER	142	Jun-19
PACHECO	AZARIAS	142	Jun-19
PARK	SANG C	142	Jun-19
PRINCE	BETH	142	Jun-19
RICHARDSON, J	JIMMY	142	Jun-19
ROGERS JR	MARK S	142	Jun-19
SPLIDE	CHRISTINA	142	Jun-19
STILES	JACOB	142	Jun-19
TEMPLE	CHRIS	142	Jun-19
TORREY	ROBBIE	142	Jun-19
WORKMAN	RUSTY	142	Jun-19
HALL	JAMES	144	Jun-19
WOOD	MARK	144	Jun-19
ARMISTEAD	CHARLES	196	Jun-19
BRADLEY	BOBBY	196	Jun-19
HEDRICK	BARRY	196	Jun-19
JUDSON	TIFF	196	Jun-19
ORTERY	BRYAN D.	196	Jun-19
STEWART	BUDDY	196	Jun-19
WHITING	LEANNE	196	Jun-19

Reporting Year 2018-2019 Pesticide Training

Date last updated 11/14/18	Certificate	3-A Ornamental Control	3-B Turf Pest Control	5-A Aquatic Pest Control-General	6 Right-of- way Pest Control	60 Registered Tech
	Certificate Numbers	Expiration Date				
Rogers, Mark	75643-G		6/30/2019			
Burcham, Waylon	127192-T					6/30/2019
Baker, Steve						
Jarvis, Patrick Jr.						
Jarvis, Patrick Sr.	135723-T					6/30/2019
Soit, Ryan						
Byrd, Ernest	132035-T					6/30/2020
Little, Chris	109-919T					6/30/2019
Lane, Steve						
Spilde, Tina	88131-G	6/30/2020	6/30/2020	6/30/2020	6/30/2020	
Harris, Leon	48252-T					6/30/2020
Prince, Beth	107671-T					6/30/2020
Richardson, Beth						
Brandt, Scott	91985-T					6/30/2019
Cooper, Jason						
Moore, Tim						
Workman, Rusty	124407-G	6/30/2020	6/30/2020			
Park, Sang						
Pacheco, Azaria						
Hall, Jimmy						
Wood, Mark	101412-G	6/30/2020	6/30/2020			
Hauser, Bill	123872-T					6/30/2020
Arthur, Jared	100026-T					6/30/2019
Manning, Darryl						
Temple, Chris						
Alves, Carlos						
Krusic, John	149455-T					6/30/2020

Pollution Prevention Training
Parks and Recreation Personnel
2018-2019 Reporting Year

Employee Name	Initial Training Date	Renewal date
John Carnifax	3/27/2019	2020
Joan Etchberger	3/26/2019	2020
Veda McMullen	4/1/2019	2020
Julie Northcott-Wilson	3/26/2019	2020
Pauline Milligan	3/27/2019	2020
La'Keia Brown Henderson	3/26/2019	2020
Angie Sims	4/1/2019	2020
Robbie Belch	4/2/2019	2020
David Martin	4/2/2019	2020
Kelly Michaud	3/28/2019	2020
Cheryl Sonderman	4/1/2019	2020
Diane Reeves	7/10/2019	2020
Alister Perkinson	2/13/2019	2020
Stephanie DeBord	2/13/2019	2020
Alex Holloway	2/13/2019	2020
Michelle Lightfoot	2/13/2019	2020
Kyle Loving	2/13/2019	2020
Shawn O'Keefe	2/21/2019	2020
Rob Insley	2/13/2019	2020
Erik Lavender	2/13/2019	2020
Christopher McKnight	2/13/2019	2020
Lamont Bartlett	2/7/2019	2020
Josh Bew	2/16/2019	2020
Grace Terry	2/13/2019	2020
Ben Knecht	2/13/2019	2020
Kristen Hamill	2/13/2019	2020
Paul Gapcynski	2/22/2019	2020
Tray Ripley	2/13/2019	2020
Brian Crowley Jr	2/23/2018	2019
Matt Lawrence	2/25/2018	2019
Nick Gosselin	3/16/2018	2019
Mike Cowden	3/7/2018	2019
Lesley Roberson	3/7/2018	2019
Daniel Wetta	3/8/2018	2019
Joe Berkley	3/8/2018	2019
Scott Amman	4/2/2018	2019
Scott Eklind	3/30/2018	2019
Terry Martin	4/1/2018	2019
Jack Foster	3/24/2018	2019
Nate Thomas	2/7/2019	2020
Jon Waters	2/7/2019	2020
Ben Leeming	2/22/2019	2020

Pollution Prevention Training
Parks and Recreation Personnel
2018-2019 Reporting Year

Paolo Oderisi	2/22/2019	2020
Kiara Douglas	2/24/2019	2020
Don Ellerthroe	2/24/2019	2020
Trisha Patton	2/24/2019	2020
Andres Arenas	2/24/2019	2020
Katelyn Crume	2/24/2019	2020
Taylor Gubler	2/24/2019	2020
Hannah Parker	2/24/2019	2020
Andres Delgado	2/24/2019	2020
Jennifer Russell	2/24/2019	2020
Judith Cryts	2/24/2019	2020
Nancy Daucitte	2/24/2019	2020
Carol Spracklin	2/24/2019	2020
Jordan Dickins	2/24/2019	2020
Matthew LaRoree	2/24/2019	2020
D. Jones	2/24/2019	2020
Sandra Anderson	2/24/2019	2020
Linda Routa	2/24/2019	2020
Maria Schisa	2/24/2019	2020
Kelly Schisa	2/24/2019	2020
Peter Stauffer	2/24/2019	2020
Grace Walls	2/24/2019	2020
Thomas Hallett	2/24/2019	2020
Kisa Kawalewski	2/24/2019	2020
Alisha Berkley	2/21/2019	2020
April Melton	5/23/2019	2020
Arlana Fauntleroy	2/21/2019	2020
Kelley Herbert	2/21/2019	2020
Joy Johnson	2/21/2019	2020
Tracy Newsom	2/21/2019	2020
Gregory Tarbox	2/21/2019	2020
Katrina York	7/30/2019	2020
Virginia Berkley	7/30/2019	2020
Gerard Cummings	8/5/2019	2020
Dana Derr	7/30/2019	2020
Felicia Graves	8/5/2019	2020
Zollie Hayes	7/30/2019	2020
Kristy Prescott	8/5/2019	2020

Part D

Status Report on Implementation of the Chesapeake Bay TMDL Action Plan

Status Report on the Implementation of the Chesapeake Bay TMDL Action Plan

Permit Reporting Year - July 1, 2018 - June 30, 2019

James City County continues to be dedicated to maintaining and improving its clean water heritage. The strict development standards and ordinances the County has implemented over the years can attest to the proactive decision-making that has led to a stormwater infrastructure that effectively minimizes pollutants in our local waterways.

Beyond the development regulations, the County continues to create, fund, and install new water quality projects. The new partnership with the Colonial Soil and Water Conservation District (CSWCD) for Turf Love and Garden Love, Capital Improvement Projects to include stream restoration and outfall repairs, and County BMP development are an ongoing focus.

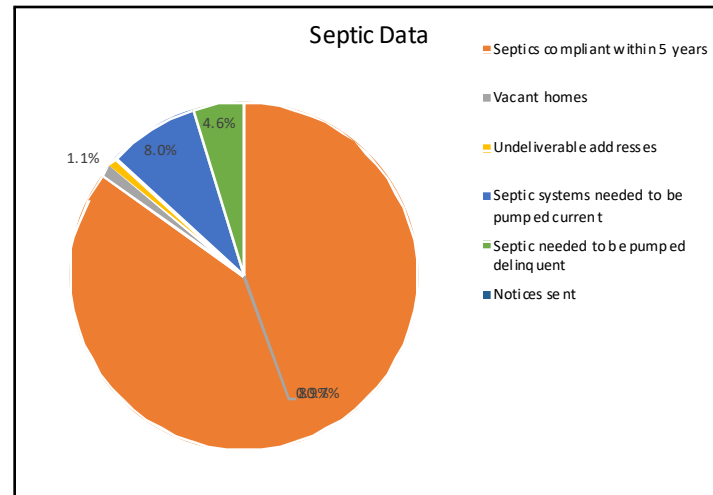
The County's Chesapeake Bay TMDL Action Plan was originally submitted during the 2014-2015 reporting and was approved by the DEQ on February 22, 2016. The Chesapeake Bay TMDL Action Plan was updated during the 2018-2019 reporting year and will be submitted to the DEQ prior to the deadline of 12 months after the MS4 permit effective date of November 1, 2018. As required by the MS4 permit, the updated plan was posted on the County's Stormwater and Resource Protection Division website on July 20, 2019 to provide an opportunity for public comment. In addition, the updated plan was presented to the County's Stormwater Program Advisory Committee (SPAC) during their July 2019 meeting for review and discussion. The SPAC then voted on approval of the updated plan at their meeting on September 19, 2019. During the public comment period, only one comment was received, it was from a member of the SPAC, and was in support of the updated plan. As required by the permit, the updated Chesapeake Bay TMDL Action Plan will be submitted to the DEQ prior to November 1, 2019, no later than 12 months after the permit effective date of November 1, 2018.

For further information regarding the latest approved Chesapeake Bay TMDL Plan prepared for James City County can be found at the link below:

<https://www.jamescitycountyva.gov/986/Chesapeake-Bay-Total-Maximum-Daily-Load>

Septic Information - 2018-2019 Reporting Year

Date	8/3/18	10/25/18	1/25/19	3/26/19	5/21/19	6/19/19	7/29/2019
Reporting year 2018-2019 Total septic entries (properties)	4,658	4,664	4,654	4,659	4,663	4,666	4,669
Total septic on properties	4,771	4,784	4,777	4,796	4,802	4,804	4,808
Total septic pumped	1,180	431	634	896	1,154	1,263	1,358
Septics compliant within 5 years	3,947		3,959	3,940	3,993	3,877	3,992
Vacant homes	43		50	48	51	52	56
Undeliverable addresses	34		34	27	32	41	32
Septic systems needed to be pumped current	272		348	411	345	383	348
Septic needed to be pumped delinquent	231		228	218	213	220	215
Notices sent	182		744	1,041	1,114	1,192	1,192



Part E

Status Report on Implementation of Local TMDL Action Plans

Status Report on the Implementation of Local TMDL Action Plans

Permit Reporting Year - July 1, 2018 - June 30, 2019

The following information provides an update for bacterial TMDL Action Plans for Mill Creek, Powhatan Creek, and Skiffes Creek. The action plans were submitted to the DEQ during the 2015-2016 MS4 permit reporting year.

Pet Waste Control Program

A total of seven (7) pet waste stations were approved to be given to Homeowners Associations during the 2018-2019 reporting year. The County's Stormwater and Resource Protection Division provides a program to provide up to two (2) free pet waste stations to each eligible HOA. An application for a free pet waste station for a HOA is provided on the Division's website. As part of the application, HOAs acknowledge that they will install the stations within 60 days of receipt from the County, notify the residents of the subdivision about the pet waste station, and agree to properly maintain it including refilling bags and emptying the waste container. In addition, pet waste stations are provided at many County parks. The pet waste station program has been determined to be beneficial for water quality in reducing bacteria loads in highly trafficked areas for pet waste disposal.

Water Quality Monitoring Programs

The Stormwater and Resource Protection Division continues to provide support to staff and volunteer monitors in the Coliscan Monitoring Program. Monitoring is underway at ten (10) sites on Powhatan Creek and five (5) in Mill Creek and data is collected on a monthly basis. Volunteer water quality monitoring during the 2018-2019 reporting year included coordination with the Alliance for the Chesapeake Bay. A total of four (4) volunteer monitors were trained to test for pH, clarity, dissolved oxygen, temperature, and bacteria and conducted monthly samples at five (5) sites around the County. James City County continued to coordinate with the James River Association on sampling for bacteria levels at the Jamestown Beach for health advisories. Volunteer water quality monitoring has been determined to be beneficial for water quality in providing hands on opportunities for citizens to become involved in the health of local rivers and streams.

BMP Bacteria Retrofit Program

The County has identified the MS4 facilities it operates in the impaired watershed that may be eligible for a retrofit. Currently, stormwater BMPs only exist in the Powhatan and Mill Creek watersheds and there are none in Skiffes Creek within the County's MS4 area. During the 2016-2017 reporting year, a total of 34 BMPs were identified as having the potential to be upgraded, and during the 2017-2018 reporting year, those facilities were evaluated to determine the feasibility of those projects, in accordance with the County's Bacteria TMDL Action Plan Program Summary.

Enhanced Employee Training Program

James City County maintains Administrative Regulation 28 (AR28) which addresses good housekeeping practices within County facilities. During the 2017-2018 reporting year, County staff assessed AR28 and investigated methods to include bacteria contamination specifics within the document. In addition, Stormwater Pollution Prevention Plans (SWPPPs) for high-priority County facilities will be updated during the next reporting year to include new staff contacts, amendments to facility organization, and additional information on bacteria contamination. James City County will continue to make document adjustments as needed.

Enhanced Public Outreach on Pet Waste

The County recognizes the very active dog loving citizens that thrive within the community. During the 2018-2019 reporting year, the Stormwater and Resource Protection Division again participated in the “Fido Fest” in partnership with local pet agencies, businesses, and enthusiasts to come together in celebration of pets and share in the education and encouragement of neighbors to be responsible pet owners. The event, held at Jamestown Beach Event Park on March 16, 2019 was well attended and provided Division staff and volunteers from the County’s Stormwater Program Advisory Committee (SPAC) an opportunity to hand out promotional items including dog waste bags and talk with community members about the importance of picking up pet waste and disposing of it properly.

BMP	BMP Description	Measurable Goal	Metric	Responsible Party	Timeline	Associated Document	Status
SC-1	Bacteria TMDL Action Plan for Powhatan, Mill, and Skiffs Creek	Develop Action Plan for Powhatan, Mill, and Skiffs Creek	Action Plan Developed	Stormwater Division	PY3	Bacteria TMDL Action Plan for Powhatan, Mill, and Skiffs Creek	Included in this Annual Report
SC-1.1	Develop and maintain a list of its legal authorities such as ordinances, state and other permits, orders, specific contract language, and inter-jurisdictional agreements applicable to reducing the pollutant identified in each applicable WLA.	Conduct annual review of policies	Complete policy review and update list submitted in annual plan	Stormwater Division	annually	County Ordinance "The Virginia Stormwater Management Program Ordinance"	On-going
SC-1.2	Develop and maintain an updated list of all additional management practices, control techniques and system design and engineering practices beyond those in Section II B that have been implemented as part of the MS4 program that are applicable to reduction Bacteria.	Compile a list of accomplishments and submit in annual reports	Submittal of list in annual report	Stormwater Division			On-going
SC-1.2.1	Pet Waste Program	Continue installing pet waste stations at park and open spaces within watersheds	Number in service	Stormwater Division	annually	GIS Layer	On-going
SC-1.2.2	Pet Waste Program	Continue offering pet waste stations free of charge to neighborhoods within watershed	Number in service	Stormwater Division	annually	GIS Layer	On-going
SC-1.2.3	Coliscan Monitoring	Continue Coliscan monitoring of selected sites within Watersheds	Number of site monitored	Stormwater Division	annually	Complete Annual Report with results	On-going
SC-1.2.4	Coliscan Monitoring	Coordinate and support volunteer monitors to enhance coverage of coliscan monitoring	Number of site monitored	Stormwater Division	PY 4	Complete Annual Report with results	On-going
SC-1.2.5	BMP Retrofit Program	Feasibility study retrofitting County BMP's for bacteria reduction	complete inventory	Stormwater Division	PY 5	Table of retrofits, cost estimates and implementation schedule	Completed in PY 5
SC-1.2.6	Chesapeake TMDL Action Plan projects	Implement projects listed in plan	Projects constructed	Stormwater Division	PY 4	Chesapeake Bay TMDL Action Plan	On-going
SC-1.3	Enhance public outreach program and employee training programs to also promote methods to eliminate and reduce discharges of bacteria.	Compile list of activities and submit in Annual Report	List submitted in annual report	Stormwater Division			On-going
SC-1.3.1	Enhanced employee training program	Add specific information on bacteria contamination and elimination to SWPPS and employee training	update training plan	Stormwater Division	PY5	County SWPPS and training program literature	Completed in PY 5
SC-1.3.2	Enhanced public outreach on pet waste	Continue participation in askHRGreen.com media program	number of spots and media buys	Stormwater Division	PY 4	Annual AskHRGreen.com report	On-going
SC-1.3.3	Enhanced public outreach at access sites	Additional signage fliers, postings at marina and marine related facilities about bacteria pollution and reductions	Document number of fliers posted, announcements made on annual report	Stormwater Division	PY 5		On-going
SC-1.4	Assessment of all significant sources of bacteria from county facilities	Complete assessment of county facilities in regulated areas to identify all municipal facilities that may be considered a significant source of bacteria	completed survey included in annual report	Stormwater Division	PY 4		Completed in PY 5